# The Atining Journal railway and commercial gazette.

DATE STATE OF THE STATE OF THE

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 726 .--- Vol. XIX.

LONDON, SATURDAY, JULY 21, 1849.

PRICE 6D.

ESSRS. GILL & VIGERS are honoured with instructions from the proprietor to SELL, BY AUCTION, without reserve, at Mr. Joll's New Passage, on Wednesday, the 24th of July, 1849, at One o'clock precisely, TWENTY-ONE THOUSAND FIRE BRICKS,

rior quality, in lots of 1000 and upwards.—For further particulars apply to Gill gens, auctioneers, surveyors, land agents, &c., 16, George-street, Plymouth (facing ral Hotel), and at West-street, Taylston,

TO ENGINEERS, MACHINISTS, AND OTHERS.
SALE at 36, Broad-street, Birmingham (opposite the British Associate)

ALE at 36, Broad-street, Birmingham (opposite the British Association Building).

AR. GIMBLETT will SELL, BY AUCTION, on Monday and Tuesday, the 30th and 31st days of July inst., on the premises, as above, the 10st of the valuable MACHINERY, STEAM-ENGINES, WORKING TOOLS, &c., benging to Mr. Thomse Graddock—consisting of TRREE superior Highl-Pressure STEAM-ENGINES, of 4-horse power each. ONE HIGH and LOW-PRESSURE ENGINE, of 26-horse power.

A valuable high-pressure condensing and expansive LOCOMOTIVE ENGINE, of 10-pressure condensing and expansive LOCOMOTIVE engine, 2 connects, 2 tubular boilers, a valuable self-acting PLANING MACHINE, by Writterful Colonies, 10-pressure and 10-pres

AT CLARBRO' AND WELHAM, NEAR RETFORD, ON THE MANCHESTER, SHEFFIELD, AND LINCOLNSHIRE RAILWAY.

TO RAILWAY CONTRACTORS, BUILDERS, FARMERS, AND ENGINEERS.

MR. G. O. BROWN begs to announce, that he has received instructions from Messrs. Waring and Sons. To SELL, BY AUCTION, at the first Tunnel, and Welham, near Retford, on Monday and Tuesday, July the 30th and list, and Wednesday, the lat August, 1849, and following days, the whole of their EXTENSIVE AND VALUABLE STOCK OF BAILWAY PLANT AND ENGINES,

RAILWAY PLANT AND ENGINES.

One 6-wheeled locomotive engine and tender, coupled on four leading wheels, in an working condition. One 4-wheeled coupled locomotive engine and tender, in at working condition. One 16-horse power, high-pressure, horizontal engine, cylinder, 23-inch stroke, with cylinder boiler 21 feet long, and 24 feet diameter. orse power, high-pressure, horizontal engine, 93-inch cylinder, 20-inch stroke, toller 174 feet long, and 24 feet diameter. In the contract of the cont

THREE HUNDRED THOUSAND NEW BRICKS, the whole of the MATERIALS comprised in the BRICK SREDS and KILNS adjoin also the whole of the MATERIALS comprised in TEN WORKMEN'S COTTAGES D THIRTY THOUSAND OLD BRICKS, AND FIVE THOUSAND PAN TILES.

ig; also the whole of the MATERIALS contained in TEN WORKMEN'S COTTAGES, AND THIETY THOUSAND OLD BRICKS, AND FIVE THOUSAND PAN TILES.

At the Wesham Yard and Wharf.

bout 1000 feet of cak, ash, and elm timber, 3000 feet of memel and red pine timber, 1000 temporary sleepers, 16,000 feet of 3-inch by 3-inch and 3-inch by 1-inch deals, 1,000 feet of 3-inch by 3-inch and 3-inch by 1-inch deals, 1,000 feet of 2-inch by 7-inch battens, a quantity of cak spokes, timber ends, boards, ex which have been used at the tunnel, and other parts of the contract; 3 double and single sparchase crabs, 10 acts of two and three sleave blocks, with ropes and chains omplete; 2 metal pumps, 1 lead pump, and 2 large water tanks, 3000 feet of 3-inch inche chain, 400 feet of 3-i6ths chain, and about a ton of different size block chain, a usatity of flat and round rope, 4 pug mills, 20 brick tables, 36 brick barrows, 60 brick tosles, 350 navvies' barrows, 3 single mortar mills with metal pans, 1 double ditto with we stones 5 feet diameter, pan 8 feet diameter; 15 three wheeled carts, 15 shaft carts for see or two horses, 4 timber carriages, 16-inch and two 3-inch wheeled waggons, 4 metal uns, and 4 wood ditts for reutilating mines, 3 acrow presses for straightening rails, and 00 feet of 14-inch metal pips, 3 pile engines complete, a large quantity of fridge and culvert entres, 30 strong English oak gate posts, 3 gates, 6 ladders, 10 casks of pitch, 1 metal and 2 wood turn tables, 8 feet diameter, 1500 new fire bricks, 20 cwts. of lamp cotton, 600 gallons of campline, 1000 gallons of napiths, 4 cwts, of anti-friction gress, 19 cwts. of orgine greenes, about 100 gallons of napiths, 4 cwts, of anti-friction gress, 19 cwts. and 100 feet of the materials, omprising bricks, timber, and tiles, &c., contained in the stables, carpasters, and smither, hops at the Welham yard, also the whole of the building materials in the milith' shop to the river telle, near the station, 13 complete sets of smithe' tools—namely; 13 pairs of vices, 9 eets of screw

High, I second-name gg. .

I Monday and Tuesday will comprise the TIMBER and other MATERIALS as Yard and Wharf. On Wednesday the HARNESS will be sold at the Welnet the ENGINES, BRICKS, and COTTAGES, at the Tunnel.

The Saic each day to commence at Ten o'clock precisely.

WEST OF SCOTLAND MALLEABLE IRON-WORKS, TO BE SOLD, BY PUBLIC ROUP, within the Boyal Exchange Sale Rooms, on Wed-codey, the 29th day of August, 1849, at One o'clock in the inferance,

TO BE SOLD, BY PUBLIC ROUP, within the Royal Exchange Sale Rooms, on Wednesday, the 29th day of August, 1849, at 0no o'clock in the internoon.

MALLEABLE IRON-WORKS.

These large WORKS, belonging to the West of Scotland Malleable Iron Company, strated at MOTHERWELL, in the parish of Dalziel, and county of Lanark, consisting of RETRIERY FIRES, FORGE, RAIL. ROLLING, SLITTING, HOOP, PLATE, and SHET MILLS;

And, with a little further outlay, capable of producing about 600 tons finished iron weekly. These works, which have been created on the most approved plan, have been in operation since May, 1847; and, besides rails, can be made to turn out all the sizes and varieties of iron usually required by the trade.

There are on the ground one blowing engine of about 60-horse power for refineries, two longs and two mill engines, condensing and that work expansively; each about 100-horse power. Between the mill engines there is a small subsidiary high-pressure engine, or do about 40-horse power, for driving the guide mills. There are likewise one little and one pumping high-pressure engines, each about 30-horse power. All these engines, with one exception, are in first-rate working order.

Attached to the works are smithle, "wights", and fitting-up shops, with turning lathes, cranes, &c., complete. Also, offices, stables, mill manager's house, and 38 workmen's house, basides ample accommodation in the village of Motherwell, immediately adjoining. These works are most favourably situated, being surrounded by coal and pig-from works; and, as the Caledonian Railway forms one of the boundaries of the works, railway sommunication to all parts of the kingdom is afforded; and the works have a direct communication with the Harbour of Glasgow, distant 10 miles, by the Clydesdale Junction Railway. Upset price, £45,000.

LANDS OF BRAIDHIRST AND MILTON.

I lands, situated is the parish of Dalziel, and county of Lanark, lie contiguous, and in all to 360 acres, or thereby, but from that fall is be deducted about 20 acres or to the Mallauble Iron Works, to be held under Feu; and about 20 acres occur the Village of Motherwell, also held under Feu; leaving about 340 acres to do, dogsther with the Feu-Dutice exigible from the portions feued as aforesald, do, dogsther with the Feu-Dutice exigible from the portions feued as aforesald, but the second of the se

r, 21st July, 1849.

MANSFIELD'S PATENT FOR SALE.—Mr. EDWARD PALMER is instructed to offer this very VALUBLE PATENT for SALE by PRIVATE CONTRACT. It includes several highly important inventions, among which are—the manufacture from coal tar of Benzole (a solvents of guitas percha, caoutchouc, copal, &c.), Nitro-Benzole, and Camphiole, cheap substitutes for ether; did of bitter almonds, and camphine, and of a figuid fuel for portable gas-lamps. Also the new system of illumination by Benzole Gas, producing a most brillant light, without any noxiosis property. Likewise a most important improvement in Gas-burners and Lamps.

For further particulars, apply to Mr. E. Palmer, auctioneer, &c., 20, Change-alley, Cornhill, London.

EXTENSIVE IRON-WORKS FOR SALE, THE BLAIR IRON-WORKS,

ging to the Ayrshire Irea Company, with the whole MINERAL FIELDS had by d company, under favourable leases, including the MALLEABLE IRON-WORKS, littletly adjoining, so far as erected—all as particularly described in former adver-nts.—There is a large STOCK of IRONSTONE on the ground, which may be had dustion.

tisements.—There is a large STOCK of IRONSTONE on the ground, which may be had at a valuation.

For further particulars apply to Mr. Biggart, at the works; Mr. Watson, 32, and Mr. Brown, 35, 55, Vincent-place, Glasgow; Mesers, McCielland and Mackensie, accountants, there; Mesars, Glison-Craig, Daixiel, and Brodie, W.S., Edinburgh; or Mesars, Montgomeric and Fleming, writers, Glasgow—the last being in possession of the title-deeds, Glasgow, June 20, 1849.

VALUABLE AND EXTENSIVE MINES OF COAL AND HONSTONE.

TO BE LET, ON LEASE, on most advantageous terms, the COAL and IRONSTONE under a very large tract of land, in the partsh of BUABON in the county of DENBIGH, adjoining the Shrwabury and Chester Rullway.

The propriet of the BESTATES on which the Ponkey and Aberderfyn Iron-Works were propriet of the BESTATES on which the Ponkey and Aberderfyn Iron-Works with the propriet of the BESTATES on which the Ponkey and Aberderfyn Iron-Works with the propriet of the BESTATES on which the Ponkey and Aberderfyn Iron-Works with the propriet of the property, and lithographed plans of the estates, showing the office of the Bining Journal, 26, Elect-street; and at J. Boydelly, 84, Threadneodie-street, London; and at Messrs. Longeville and Williams, solicitors, Oswestry.

ONSOLIDATED CODDED

CONSOLIDATED COPPER MINES OF COBRE ASSO-CIATION.—At a Half-yearly General Recting of the proprietors of the associa-tion, held at the offices of the company, 98, Austinfrars, on the 17th day of July, 1849, RUSSELL ELLICE, Esq. (Chairman), in the chair.

RUSSELL ELLICE, Esq. (Chairman), in the chair.

The advertisement convening the meeting having been read, the following report was read:

The directors have much pleasure in congratulating the sharsholders on the present prosperous state of their affairs; they have not for some years had so much satisfaction in laying the ampual account of the operations of the company before the half-yearly general meeting as on the present occasion.—21,761 tons of ore were reased during the year 1848, which exceeded the produce of the presenting year by 5168 tons; and it is pleasing to state, that the quantity raised during the present year, as far as it has gone, is equal to that augmented quantity of 1848.

During a considerable part of last year the price of ore was very low, so much so, that the directors were induced to reserve on the wharf at Swansea a large quantity of stone ore, as mentioned in their report in January, but the price having subsequently risen considerably, they availed themselves of the improved market, and thus materially benefitted the company.

The audited account now submitted to the meeting shows a balance of 38,0241. Iss. 3d., on the produce of 1849, out of which a division of of 11, per ahay was paid in Feb. last—there remains a balance of 23,0241. Iss. 3d., and as the operations of the present year promise well, and the sales arising from them have already realized a handsome profit, the directors now declare a dividend of 81, per ahare, payable on and after the 26th inst.

The re-imposition of the Danish blockade has somewhat lessened the demand for copper, and threwn a little back the price of ore, which has induced the directors again partially to reserve the atome ore; a nevertheless, as things generally on the continent are taking a more settled form, and the stock of copper there is said to be very low, the directors of the 85. Jago Company, and they have reason to lone, that every point of difference between the two companies will be settled in an amicable manner.

It was mentioned in th

CONSOLIDATED COPPER MINES OF COBRE ASSO-CASTOM.—Notice is hereby given, that a DIVIDEND of THERE POUNDS per share will be PAID to the HOLDERS of CERTIFICATES in this company, at the office of the association, 26, Austinfriars, on and after the 26th day of July, 1849, between the hours of Eleven and Three O'clock.—The proprietors are repuested to leave their certificates at the office, for examination, three clear days before the day of payment.

By order of the court of directors, WM. LECKIE, Secretary, 25, Austinfriars, July 17, 1849.

TWENTY-FOURTH REPORT of THE LONDON JOINTSTOCK BANK.—At a General Meeting of the shareholders, held at the bankinghouse of the company, in Princes-street, Mansion-house, on Thursday, July 19, 1849,
CHATMAN —WILLIAM JAMES LANCASTER, Esq.
DEPUTT-CHAIMMAN—GEORGE SCHOLEFIELD, Esq.

William Blounf, Esq.
Sir Fellx Booth, Bart,
Sir George Carroll, Alderman.
William Miller Christy, Esq.
William Curling, Esq.
George Holgate Foster, Esq.,
William Ormeby Gore, Esq., M.P.
Henry Grace, Esq.,
Archibaid Hastie, Esq., M.P.

The following report was pres The annexed accounts which the directors have the pleasure to lay before the sha olders will inform them that the net profits realised by the bank during the six mont ading the 30th June last, amount to £35,433 14s. id., and that the sum of £18,4 sing appropriated to the half-yearly dividend, at the rate of £6 per cent. Per annu zero remains a balance of £18,433. 14s. id. undivided profit to be disposed of at the c the year. The dividend, free from incomic-tax, will be available on and after year

best thanks of the shareholders are due also talent and diligence he has applied to the du bank to such a successful result.

Extracted from the minutes. WILLIAM JAMES LANCASTER, Ch. F. HEWETT, So.

UNION BANK OF AUSTRALIA, 38, Old Broad-stree
The directors having this day declared a DIVIDEND of THERE PER C
or the half-year, upon the entire paid-up capital of the bank, together with a to
tive Shillings per share on the 39,000 paid-up shares, and a like proporties of bo
the £2 10s. per share paid-up on the 8000 shares of the third series, PATABLE or
the time of the term over Notice is person to the time termine books will be cleared.

TO THE PROPRIETORS OF COAL MINES, IN WALES OR NEWCASTLE.—A PROPRIETOR of COAL MINES, wanting to increase trade abroad, may PROCURE the SERVICES of a GENTLEMAN having connective who buy, by eargoes or by contract, in large quantities at Boulogne, Amiens, Abberil Calais, and other places along the French coast. One who can furnish good coal suita for may work a steam enginess or greater at a moderate noice, will belease the different force.

A GENTLEMAN, a native of Freyberg, who has been som years in the Royal Saxon Service of Mines, is desirous of meeting an ENGAGE MENT, either in ENGLAD or ABROAD. He has a general knowledge of mining an chemistry, understands assaying in all its branches, and is perfectly acquainted with the smelting and refining of copper, lead, eiter, and gold.—Address, "G. T.," at the office of the Mining Journal, 26, Fleat-street, London.

LASS TRADE.—WANTED, a PARTNER, in England, to SECURE a PATENT RIGHT for NOTABLE IMPROVEMENTS in the MAKING of GLASS.—Apply (post-paid) to Mr. Eschrech, Philippeville, Belgium.

ANTED, about TWENTY NEW, or good SECOND-HAND, PUMPS, 14 inch thick, 8 inches bore, 9 feet long, and about 9 cwts. each.—Address particulars, as to lowest price, &c., and port for shipment, to Captain Horton, Jamaica Coffee House, Corahill, London.

STEAM-ENGINE FOR SALE.—TO BE SOLD, BY PRI-VATE CONTRACT, an S5-inch cylinder STEAM-ENGINE, 10-feet stroke, equa-Application to be made to Messrs. Hocking and Loam, engineers, Redruth.

VALUABLE MINE SHARES.—FOR SALE, BY PRIVATE CONTRACT, THIRTY-FIVE (1624ths) SHARES in that well-known and excelent TIX MINE, BALLESWIDDEN, in ST. JUST, near Pennance, Cornwall, in three lots, of 20, 10, and 5 shares.—This mine was never in a more efficient state of operation than at present. Large dividends of profits have hitherto been shared among the adventurers, and the present prospects fully justify the expectation of realising large and continued remunerating profits for the future.

Apply to Mr. J. B. Merfield, mine and sharebroker, auctioneer, and general agout, Clarence-street, Penzance.—Dated July 16, 1849.

MINES IN FLINTSHIRE.—TO BE SOLD, BY PRIVATE INES IN FLINTSHIKE.—TO BE SOLD, BY PRIVATE
TREATT, by order of the trustees of the late William Williamson, of Greenfield,
sq., SHARES in the following valuable and well-known MINES, in the county of Fint
-viz, Talargoeh, Hendre, Talacre, Nant, and Parys Mine, near Halkin,
Most of the above mines are so celebrated, and have been so long established, that I to
mnecessary to add a word in support of their claim to public attention.

ON SALE also, by PRIVATE TREATY, a MOIETY of the COAL and MINERALS
under about 28 acres of land, in Groespyr, in the parish of Lianasa, now in the occupation of — Jones, Eq.

For information and particulars apply to Mr. Williamson, solicitor, Pendre, Holywell;
Mr. William Williamson, solicitor, Well-struct, Holywell; or to Mr. E. H. Williamson,
Treenfield, near Holywell; Finishire. For information and particulars ap Mr. William Williamson, solicitor, Greenfield, near Holywell, Flintshire

MINING PROPERTY.—Mr. JAMES HERRON, MINE

AGENT, 33, CLEMENTS LANE, LOMBARD-STREET, has received instructions to DISPOSE of SHARES in FIRST CLASS MINES, paying regular dividends, and yielding to the purchaser from 174 to 25 per cent. upon his outlay. He is also in a position to transact business in the following—viz.; Guadalcanal, Keswick, United Mexican, Alteas, East Crowndales, Bedford United, Finerork, Treleighs, South Tamar, South What Frances, Stray Park, East Pool, Trelawny, H. imbush, Callington, Mary Ann, West Scipn, South Tolgus, and Devon Great Consols Mines.

MR. EVAN HOPKINS, C.E., F.G.S., CONSULTING
ENGINEER AND INSPECTOR OF MINES,
May be CONSULTED DAILY (by letters) on all subjects connected with MINING
PROPERTY, both Home and Foreign.

BARRINGTON-ROAD, BRIXTON.

MR. GEORGE BATE, Jun., CIVIL ENGINEER AND SURVEYOR, WOLVERHAMPTON.
Offices in Queen-street, coiner of Piper's-row,
N.B.—UNDERGROUND MINING SURVEYS accurately excented.

MR. JAMES STRIDE, MINING AGENT, AND DEALER 11 SHARES. 21. SPRING-GARDENS. LONDON.

MR. C. S. RICHARDSON begs to announce that he has REMOVED his OFFICES from Whitefriara-street, Fieet-street, to 15, OLD BROAD-STREET; CITY.

JAMES LANE, MINING SHARE DEALER, 80, OLD BROAD-STREET, LONDON. 24

A USTRALIAN MINING COMPANY, 1, Adelaide - place,
July, 1849. — The board of directors hereby give Notice, that, agreeably to the
provisions of the Deed of Settlement, the FOURTH ANNUAL GENERAL MEETING
of the shareholders in this company will be HELD at this office on Monday, the 30th July
inst., at Twelve o'clock precisely, to receive the report, accounts, and balance-sheef for
the past year—to elect three directors in lieu of three whe go not by rotation—and to fill
up the vacancies occasioned by the resignation of John Capper, Esq., and the decease of
Hannand to Castro, Esq.—to fix the remuneration of the present auditors for the past
year. At which meeting also a snotion will be submitted for a modification of the present
manner of admitting voice by proxy at general meetings.

By order of the board, (Signed) J. A. JOSEPH, Secretary

RAL COURT of proprietors of the above-named company will be HELD at No. 2.
Duke-street, Adelphi, on Wednesday, the lat of August next, to confirm resolutions for
raising an additional capital, by the issue of 14,000 preferential shares, at the price of
£3 per share—which sum is to be returned to the holders of such preferential shares before any payment, out of prefits, be made on account of the shares now existing, and the
said preferential shares afterwards to rate equally with the other shares of the company.
The present registered, or serfy, shareholders will be entitled to the preference of such
new shares, but applications will be received from other parties for such shares as may
not be taken by the present shareholders.

CAMERON'S COALBROOK STEAM COAL & SWANSEA AMERON'S COALBROOK STEAR COAL SWANSEA

AND LOUGHOR RAILWAY COMPANY. Registered and Incorporated.

Notice is hereby given, that the ANNUAL GENERAL MEETING of the registered proprietors of shares in this corporation will be HELD at the company's offices, 2. Moor gate-street, London, on Tuesday, the 31st day of July inst., at One o'clock in the afternoon precisely, for the purpose of receiving the directors reports, and for the transaction of other business, as expressed in the Deed of Settlement and Act of Farliament incorporating the company. Shareholders in arrear of call are disqualitied from voting at the meeting.

By order of the board of directors.

Company's Offices, 2, Moorgate-street, London, July 12, 1849.

Note.—The transfer books will be closed from the 14th to the 31st of July instant, bold inclusive.

COPIAPO MINING COMPANY, 22, Austinfriars, July 13, 1849.—Notice is hereby given, that the HALF-YEARLY MEETING of the shareholders in this company will be HELD at their office, 22, Austinfriars, on Thursday, the 26th inst., at One o'clock precisely. At this meeting two directors, and one auditor, will go out of office by rotation, but, being eligible, will offer themselves for re-election. Notice is further given, that this meeting is made SPECIAI, for the election of a director; any shareholder desirous of becoming a candidate, is requested to give seven days' previous notice of such intention in writing to the secretar.

By order of the directors,

FRED. GRELLET, Secretary.

HOLYFORD COPPER MINING ASSOCIATION.—The for transacting the ordinary business of the association.

London, July 17, 1849.

J. W. BUCKLAND, Jun., See

TAMAR SILVER-LEAD MINING COMPANY

Notice is hereby given, that a DIVIDEND of TEN PER CENT. the directors upon the paid-up capital of this company, PAYABLE 11th proximo, and succeeding Wednesdays, between the hours of cottlicates are required to be left at the office two clear days, in and marked.—44, Finsbury-square, London, June 21, 1849.

UNITED MEXICAN MINING ASSOCIATION.

Is hereby given, that the HALF-YEARLY GENERAL MENTING of this association will be HELD at the office of the company, No. 5, Finance Wednesday, the 26th day of July proximo, at One o'clock precisely, when the three directors and one auditor will take place.

Directors going out by rotation.—Sir John Easthope, Bart., and Charles Auditor going out by writing the many Revealer Year.

Directors going Auditor going of And who, being Candidate for t

CORNISH STEAM-ENGINES.

he number of pumping-engines reported for the month of June is 25—the quantity cals consumed being 2406 tons lifting, in the aggregate, 23,080,000 tons of water 10 cons high—the average duty of the whole is, therefore, 54,000,000 lbn, lifted I foot high The number of pu

Mines.	Engines.	Length of stroke	Load in pounds.	Load per sq. inch on pist.	0 =	Con- sump. of coal in bus,	Million lbs. lifted 1 foot by consump. of 1 bush.coal	Lifted i ft. ba i cwt. of coal.
Great Work	Leeda's 60-in.	9:0	41,820	11.5	9.7	2688	56.5	67 69
East W. Crofty		10.33	82,333	13.2	5.7	3248	58.5	69
East Pool		9.75	38,124	11.0	4.4	1210	54 6	65
Carn Brea		9-0	60,882	24.2	4:4.	1618	57:1	68
Poldice	Sims's 85-inch.	11.0	77,545	9:5	7.8	3839	87-6	48
South Frances		11.0	38,069	7.0	5.0	1608	54.6	65
United Mines		11.0	97,621	15.6	5.5	3648	77.6	92
	Cardosa's 90-in.	9:0	100,682	13.8	7-1	5074	58-0	69
	Eldon's 30-inch	9.0	13,631	16.0	7.5	616	65.3	79 67
	Loam's 85-inch	10.0	87,947	11.6	7-2	4406	56.1	67
	Hocking's 85-in	10.0	97.817	14.4	6.9	5132	57-8	69
Tywarnhayle.		10.0	73,268	11-6	7-0	3550	58-1	69
East Wh. Rose		10.0	68,640	16.0	3:9	1664	69.4	83
	Michell's 70-in.	10.0	68,171	15-0	8:4	1586	64-2	76

f Abstract from Browne's Cornish Engine Reporter, from May 20 to June 20, 1849.]

Labeltace month provide a con usas Englant megor to 1 cross and 20 ce	
PUMPING-ENGINES.	18.00
Number reported	5.1
Gallons of water drawn per minute  Average duty of 17 engines—being million lbs. lifted 1 foot high, by the consump-	5208 65-6
Actual horse-power employed per minute  Average consumption of coals per horse-power per hour, in lbs	931.0
BOTART-ENGINES-WHIMS.	
Number reported	20
Number of kibles drawn Average depth of drawing, in fatheres	128.3
1 cwt. of coals	53.0
Average duty of 11 engines, as above	19.6
STAMPS.	20 30
Number reported	7
Average number of strokes per minute	13.8
Average duty of 6 engines, as above	39.4
Actual horse-power employed per minute	163.8
PUMPING-ENGINES DOING HIGHEST DUTT.	237
Par Consols Millions	100.4
Fowey Consols80-inch single	99-9
Par Consols	94-9
Callington50-inch single	82-8
Great Polgooth 80-inch single	82-3
West Fowey Consols 60-inch single	81.6
Fowey Consols Millions	
Fowey Consols 22-inch double Millions	29.4
Par Consols	27.0
Fowey Consols	24.2
Par Consols24-inch single	18.8
Great Polgooth 22-inch double	17.4
STANFING-ENGINES,	
Great Polygoth Millions	56.6
Tineroft 36-inch double	46:4
Tamar30-inch single	39.7
Great Polgooth24-inch double	38-9
mices + offerm	

Changes in the Iron Trade.—It is reported, we believe on credible authority, that T. Scale, Esq., of Aberdare, or a company of which that gentleman is a leading member, bave become the purchasers of the Cefa Cwee Iron and Coal-Works, as well as of the Garth Works, Maesteg, both of which belonged to the Galvanized Iron Company. It is likewise rumoured that the same party has taken the works of the Britonferry Iron Company, and that all these establishments are to be carried on with vigour. We sincerely hope, on account of the trade and commerce of these important districts of Glamorganshire, and especially for the sake of the working population, that such is the case. It is well known that the Garth Works have been for some time at a standatili, excepting so far as the employment of comparatively few hands to dig mine, is concerned. At the Cefa Cwac Works operations have been carried on very inactively and cautiously, while the Britonferry furnaces were put out a few weeks since. We, therefore, hail this information, as a good omen, and view it as some indication of an expected revival 4 an o distant period, in this important branch of our trade.—Swansea Herald.

The Iron Trade in America.—There are in Ohio and Kentucky 33 iron

important branch of our trade.—Sugneed Hevald.

The Iron Trade: In America.—There are in Ohio and Kentucky 33 iron furnaces, which yield an aggregate of 56,000 tons of pig metal each year; in addition to which there are a number in Tennesses and Illinois, which yield a considerable amount of metal, and, with the increase of population in the west this business is steadily advancing. Much the largest portion of Ohio and Kentucky is disposed of in the Cincinnati market; and it is very seidom that the supply is more than adequate to the demand, or that the former is not about equal to the latter. In consequence of this, and the article not being one of spaculation, prices fluctuate but little, and the raling rates have been about \$26 for cold blast, Tennesses and Illinois; \$28 for Ohio and Kentucky; is and \$27 for hot blast. Of the 56,000 tons produced in Ohio, and Kentucky, it is estimated that 22,000 tons is consumed in Cincinnati, for which \$600,000, or thereabouts, is paid annually. From this statement, some idea may be formed of the extent of the foundry business in Cincinnati.—Philadelphia Com. List.

### ACCIDENTS.

Threughhasite Colliery, Neston.—Adam Robinson, in spite of continued warnings, went into one of the workings with a naked light, when a quantity of carburetted hydrogen exploded, and so accrebed him, that his recovery is uncertain. Several men have lately been discharged from this colliery for taking the tope of their lamps off.

Scotiff Grass.—In sinking a shaft here, which was already 30 yards doep, a shot was charged, and the men came up the shaft, when the runner was placed over it, and J. Bridgewater stood upon it. The explosion forced a piece of rock perpendicularly up the shaft, strack the runner, carrying part of it and the man several yards into the air, to the astonishment of his companions. He escaped with a few bruises.

Whitherese Colliery:—As B. Dryden, a carpenter in the employ of the Earl of Lonsdale was at work on a platform in the William pit, it by some means gave way, and practicated him 90 fms. to the bottom of the shaft, from whence he was taken out dead, and mach mutilated. He had been 30 years in the earl's employ, and was much respected.

Failing in of a Coal Mine.—We learn that an accident occurred at Capt, Ferrie's coal-

Patting in of a Coal Mine.—We learn that an accident occurred at Capt, Ferrie's coalpit, Dalmarnock, which it is easily conceivable might have been attended with the most dinsertous consequences, though happily such, as far as we can understand, did not accrue from it. The roof of the pit has to a considerable extent sunk in. By this depression a considerable attention has been effected in the position of the land on the surface and one farmer will, in particular, suffer severely thereby. It is extremely fortunate however, that the circumstance, which must have been entirely unexpected, has entailed no less of life.—Glasgos Daily Mail.

see or use.—Glasgow Daily Mail.

Wrestern.—A most calamitous accident occurred at the Minerva Colliery of Mr. Burs, by which eight persons were killed, and two others dreadfully injured, one of whom insee dead. It appears to have been the practice of some of the colliers to use an unsected light in the pit, although there were plenty of safety-lamps at hand, and such girt haying been carried on this occasion, the fire-damp in one part of the pit exploded. some was also killed by the explosion, and a large quantity of machinery considerably maged.—Chatter Courant.

Clay Cross, Derbyshire.—Several beds of coal crop out near the tunnel, in a field be-neing to Mr. T. Elliott, Jun., miller, and a heading is driven in the meadow to obtain al for the engine-furnace; J. Kinder, on Wednesday, went in to get a few barrows of Al, when, remaining an unusual time, he was searched after and found dead, having on suffocated by carbonic acid gas.

Wordsley.—Joseph Fox (aged 13) was killed in a coal-pit belonging to Mesars, Oaker d Junes, of Standhill, by an explosion of fire-damp.

### COAL MARKET, LONDON.

PAIGE OF COALS FEE TOW AT THE CLOSE OF THE MARKET.

ONDAY.—Boddie's West Hartley 13 9—Carr's Hartley 13 9—Chester Main 14 9—
Adair's Main 12—Hastings Hartley 13 9—Holywell Main 14 6—New Tanfold 12 6

nth Peareth 13—Tanfold Moor 12 9—Tanfold Moor Butes 12 6—Walker's Primrose
Wylam 13 9—Wall's End Acorn Close 13—Brown's Gas 12—Bewicke and Co. 15 3

own's 14—Gibson 14 9—Hebburn 14 9—Hilds 14 9—Northambarland 14 9—Wall49—Whareliffe 15 3—Eden Main 16 9 to 16—Lambton Primrose 15 9—Bell 15 9

CO.," to imitate which is forgery.

A. R. Finnigan, 30, Milsom-street.

2020—Henry Shum.

2021—Henry Shum.

2021—Henry Shum.

2021—Mr. F. Eose, No. 32, Weish Back;

2021—Mr.

Curacron—Williams and Hugnes, booksoliers.

Cork—J. Pigott, 29, Marlborough-street.

Dowlin—J. Parkes & Co., Chancery-lane,
Douglas (Isle of Man)—R. G. Kelly.

Edinburgh—Arch. Young, 17, Princes-st.

Arch. Mackryde, perfumer to
the Queen, 67, George-street.

William Harthill.

Liverpool—Everard Eastee, St. George'screecont, &c.

Loughborough—B. Baldwin, jeweller, Market-place.

Liverpool—E. J. Partridge, Public Library.

N T S.

Manchester—J. & W. Wood, surgical instrument makers, 74, King-st.
J. Hull, hardware dealer, 48
and 50, Swan-street.

Merthyr Tydell—H. W. White, stationer.

Monmouth—H. Waugh, bookseller.

Nottingham—James Fox, perfumer, Middle

Downmand.

Merupe
Monmouth—B. Waugn,
Monmouth—B. Waugn,
Notinghan—James Fox, perfumer, Musical
Pavement.
Newcosile-upon-Type—Thos. Hern, Musical
Repository, Grey-street.
Plymouth—J. A. Page, goldsmith, George-st.
G. E. Ball, perfamer, near the
Royal Hotel.
Presion—John Kay, perfumer.
J. Sharples, Cheapside.
J. Mande, Church-street,
J. Mande, Church-street,
J. Mande, Church-street,
J. Parkes, Market-place. J. Mande, Church-sirees.
Stockport—A. Parkes, Market-plac
Suansea—W. Griffiths, chemist.
Stafford—T. Turner, ironmonger.
Wirknerth—James Whittaker, bo
Wolverhampton—W. W. Andrews.

CCIDENTAL DEATH INSURANCE COMPANY.

PROVISIONALLY REGISTERED.

pital £100,000, in 5000 shares, of £30 cact; with power to increase it to £500,000.

DIRECTORS.
Goo. Ivea R. Barker, Esq.
KENYON S. PARKER, Esq., Q.C., Chairman.
Hon. Richard E. Howard.
John Phillips Judd, Esq.
Lord Edwin Hill, M.P.
Thomas Knox Holmes, Esq.
Captain Lowther, M.P.
Charles Snell Paris, Esq.

George Wodehouse Carrie, Esq.; William Gladstone, Esq.; Kenyon S. Parker, Esq.

AUDITORA.
Thomas A. Mitchell, Esq., M.P.; Robert Tower, Esq.; Thomas M. Weguelin, Esq.
Messrs. Curries and Co., No. 29, Cornhill.

Messrs. Curries and Co., No. 29, Cornhill.

Messrs. Maitby and Bobiason, No. 34, Old Broad-street.

SECENTARY—William Young.

Consulting Agroads—Hilliam Young.

Consulting Agroads—Edward Ryley, Esq., F.R.A.S.

Thia.company undertakes to effect insurances, to be paid only in the event of the insured dying by an accidental or violent death, whether in travelling or otherwise. The smallness of the premium, which is payable once for the whole term of life, in proportion to the sum insured, will render its objects attainable by these whose means will not admit of their effecting ordinary life assurances.

The premium to be charged for insuring the lives of the general class of persona is one payment of £1 is, per cent., but the directors will be propored to consider proposals on the lives of persons whose occupations expose them to poculiar hazard, as risks not to be entirely rejected, but in many instances to be undertaken, as an increased rate of premium.—Offices have been secured at No. 7, Bank-buildings. Orthbury, which are in course of completion: and in the meantime prospectuses and information can be procured from the secretary, at No. 6, New Broad street, to whom applications from parties wishing to become agents for the company can be addressed.

LONDON INDISPHITARE E. LIFE POLICY COMPANY

ONDON INDISPUTABLE LIFE POLICY COMPANY,

NOORPORATED BY ACT OF PARLIAMENT,

ON THE PRINCIPLE OF MUTUAL LIFE ASSURANCE, No. 31, LOMBARD-STREET, LONDON

John Campbell Renton, Esq., M.P. | Richard Speoner, Esq., M.P. | Richard Malins, Esq., Q.C. | William Wilberforce, Esq. | William Wilberforce, Esq.

William Wilberforce, Eeq.

This company is prohibited by their Deed of Constitution, duly registered in terms of the Act, from disputing a policy upon any ground whatever. All questions as to age nealth, habits, and other matters deserving of inquiry, prior to the contract being entered into, are held as finally settled, when the assured receives his policy. Copies of the annual report, and of the annual meeting of the members, prospectuses, and schedules, may be obtained by personal, or written, application to the Head Office, or any of the agents.

PROPITS ON LIFE ASSURANCE.- Few persons who have not the means of in pecting the annual accounts of the old assurance offices can have the slighte specting the annual accounts of the old assurance offices can have the slightest conception of the enormous profits which have been made under the original rates of premium, or can wonder that there should be so wide a field for competition, and that modern societies should be able to pay handsome dividends and bonuses, on a reduction of premiums, in some cases to the extent of 50 per cent. The Equitable, which was, we believe, the first establishment which originated rates of premiums far below the Sun, Phoenix, Royal Exchange, Amicable, and others under the ancient regimé, have been realising such extraordinary gains that they now possess, in concols, 2,305,000%; reduced bank annuities, 2,740,000%; cash on mortgage, 4,121,844%: making together a reserve fund, if it can be so termed, of the enormous amount of 9,166,349f. Their receipts, as premiums and other business items, for the year ending Dec. 31 last, were 261,193f., while their interest on mortgage debts was 169,105f.; and dividends on stock, 152,295f. The cash paid on policies, claims, and additions, amounted to 698,791f.; and for surrendered policies and additions, and further investments, 62,296f.: leaving balance in hand, 35,969f.

ACCIDENTAL DEATH INSURANCE COMPANY .- As a novel feature arising ou

ACCIDENTAL DEATH INSURANCE COMPANY.—As a novel feature arising out of the general principles of life assurance, we have, on a previous occasion, noticed the Railway Accident Assurance Company, by which a sum of money could be secured, for a small payment, in case of death during a particular journey, or by an annual or quarterly payment for railway travelling generally. In the prospectus for a new company just formed, we find this principle still further developed, in which the promoters offer to guarantee a sum at death in case the assurer loses his life by any socident, and dies within 21 days after it happens. Every person of observation is aware how often, how sudden, is the thread of life aevered, when the remotest danger could not have been anticipated; nor is it only the members of callings, whose occupations are more than usually hasardous, that alone fall victims to accidental deaths. Pleasure seekers of all grades—by river, or by rail, by carriage, or on foot—the plodding tradesman, the enterprising merchant, the toiling mechanic, the engineer and architect, without a moment's warning, may, by accident, be snatched from this sublunary scene, and will be wise to embrace the advantages offered by this society. As the number of deaths from violent accident form but a moderat proportion of the whole range of mortality, we expect, of course, the premiums will be proportionally low. They have not yet commenced actual business, although a highly respectable direction is formed; and they have fixed the premiums at one guinea per cent, on ordinary lives, not engaged in hazardous occupations, which is as low as they can be consistently with justice to the assured and to the proprietors, and, except in particular cases, this sangle payment is substituted for annual premiums, by which means the policy-holder is assured for life, without incurring the risk of forfeiting a policy by any accidental omission, or inability, to continue the yearly payments, generally necessary to keep an ordinary life policy on foot. T of the general principles of life assurance, we have, on a previous occasi

THE TIMES LIFE ASSURANCE AND GUARANTEE COMPANY.—Notwithstand Bast Adair's Main 12—Hastings Hartley 13 9—Holywell Main 14 6—New Tanfield 12 6—South Pearch 13—Tanfield Moor 12 9—Tanfield Moor Bates 12 6—Walker's Primores 12—Wylam 19 9—Wall's End Acorn Chee 15—Brown's Gas 12 6—Bewleke and Co. 15.3—Rrown's 14—Gibson 14 9—Hebburn 14 9—Hilds 14 9—Northambarland 14 9—Walker's Primores 15 3—Behands 14—Hebburn 14 9—Hilds 14 9—Northambarland 14 9—Walker's Primores 15 3—Behands 14—Hebburn 14 9—Hilds 14 9—Northambarland 14 9—Walker's Primores 15 3—Behands 14—Hilds 14 9—Lambton 16 9—Bell 15 9—Bell 15 9—Bell 15 9—Bell 15 9—Bell 15 9—Hattley 16 9—Hattley 16 14—How's Toes 15 3—Behands 16 9—How's Hall 15 6—How's Toes 15 3—Behands 16 9—How's Hall 15 6—Pearley Hall 15 6—How's Hall 15 6—How's Toes 15 3—Behands 16 9—How's Hall's 9—Ships at market, 183; sold, 95.

Warding Market Primores 12—West Hartley 14 6—Halling 15 4—Hartley 14 3—Halling 15 6—Bell 16 16—Bradyil 16 6—Hatton 17—Hartley 16 9—Hatton 15 9—Jonasohns 14 9—How's Hall's 9—Hatton 16 9—How's Hall's 9—Jonasohns 14 9—How's Hall's 9—Hatton 16 9—How's Hall's 9—Jonasohns 16 9—How's Hall's 9—How's Hall's 9—How's Hall's 9—Hatton 16 9—How's Hall's 9—Jonasohns 16 9—How's Hall's 9—How's Ha ing the vast extent of societies for carrying out the principle of life assurance

DLANTAGENET GUARD RAZOR.

EVENTAGE OF THE ATTORNEY OF CHARGE AND CHARGE OF THE ATTORNEY OF OF THE ATT ALLEGED MINING ENCROACHMENT ON CROWN RIGHTS.

The Attorney-General v. Williams, East Cawdon, and Others.—Mr. Turney (with whom was Mr. Maile) staged that this was meltion at the relation of her Majesty, for a view and survey of certain mines at Old Casile Farm, Carmarthen shire, which extended beneath the sea-shore; and it was alleged by the relator that the works were carried on beyond the line of the high-water mark of the sea, whereby the rights of the Crown were infringed. The proceeding was instituted by the Commissioners of Woods and Forests and Land Revenus. The statement made by the issured counsel was, that the Crown, having been apprised of this fact, applied in vain for pertainsion to send its own surveyor to accretan to what distance seaward the company were working from the months of the four shafts sunk for the purpose of raising coal and culm. The owners of the land had lessed the property to a company for mining purposes, and these parties also had large copper-smelting furneses in the neighbourhood. The information which he mining company fermished was, as the Crown alleged, not in be depended upon; and it, therefore, became necessary, with a view to protect the Crown, and to ulterior proceedings, if it should be found necessary to move for an injunction, that the Court proceedings, if it should be found necessary to move for an injunction, that the Court of the Crown to see how far seaward the miners had carried the owners from the base of the four shafts, and that the court order that access should be given to the surveyor of the Crown to see how far seaward the miners had carried the owners from the plas to seaward.

Lord Lawomals remarked that the principal point to be settled was what was the line of high-water mark at the equinoctial season, when it was highest, and the high-water mark. The cases of kynaston e, the East India Company and Lord Lonsolale e. Unwin were quoted as precedents for the application.

Lord Lawomals: Perhaps it may turn out to be a line between these extreme lines.

THE ALLEGED ROBBERY AT THE MARMATO GOLD MINES.—In the Mining Journal of the 7th instant we raported the charge made against Mr. Willing Degenhardt, for appropriating to himself two bars of gold, a quantity of gold dust, and other valuables, the property of the Marmato Mining Company, when he was admitted by Mr. Norton to bail in his own recognizances of 500l. He surrendered on Thursday last, to undergo a further examination, when Mr. Justine, from the office of Messre. Maples and Ce., Old Jewry, and Mr. Powles chairman of the company, attended to prosecute; and Mr. Games for the defence. The property found in the first instance on board the vessel in which Mr. Degenhardt was passenger, amounting to about 1000l., did not include the gold bars, and Mr. Justine stated that the whole of his goods had been carefully examined, and he was bound to say that nothing had been found to strengthen the case. There was, however, discovered a book, in which all their receipts and disbursements had been entered by Mr. or Mrs. Degenhardt, an English translation of which he wished to put in to strengthen the evidence against him. The prisoner had acknowledged that the property found on him was his, and had been the result of his savings and speculations. He felt it his duty, to sak fora further remand, to enable them to hear again from New Grenada.

—Mr. Games asid, it was a question whether there was a tittle of evidence, or the slightest justification in detaining his client a single moment, under the imputation which had been endeavoured to be cast upon him. With respect to the property found, he should be able to account for ever shilling and shilling's worth, as advances from his friends in Germany, in addition to his own savings, would fully make up the amount.—Mr. Justine said, that in the book he had mentioned, 400l. only was stated to have been received, instead of 1300l. as now attempted to be shown.—Mr. Games said, he could, in the first instance, have put a stop to the case, from want of jurisdiction in the magistrate to deal with it, but he was so convinced of the innocence o Journal of the 7th instant we reported the charge made against Mr. William Degenhardt, for appropriating to himself two bars of gold, a quantity of gold

Stopping the Pennication of a Calliery.—At the Crown Court, York, on the 14th inst., John Harrison was charged with having, on the 10th March, at Wath-upon-Dearne, in the West Riding, feloniously filled up and obstructed a certain airway belonging to a coal mine, with intent to destroy the said mine, and to hinder and delay the working thereof, the property of John Dobson Charlesworth and others. The indictment was founded on the 7th and 8th George IV., chap. 80, sec. 6, which enacts that if any person shall unlawfully and maliciously fill up or obstruct any airway or shaft of or belonging to any mine, every such offender shall be guilty of felony. It appeared that the prosecutors (the Messrs. Charlesworth) are the owners of the Swinton-park colliery, which extended about 1500 yards underground. In order to convey pure air to this colliery it was necessary to have air passages or pipes to convey air to the men working in the mine, and also to convey away the foul air. On Saturday, the 10th of March last, the prisoner was employed in working in this colliery, at what was called the leading bank, or first bank of the pit. He continued working there till all the men had left, it being then Saturday night. Supposing the air passages to be then stopped up, any escape of foul air in the pit would be confined and become dangerous. It seemed that the practice at the mine was, on every Morday, for the bottom steward of the mine to go down into it before the men with a Davy lamp, in order to see that all was safe. On going down into the pit on Monday morning, the 12th of March, the bottom steward found the safety-lamp indicated danger, and on cautiously examining the air-tubes be found them stopped up with shale. The prisoner did not come to work at the usual time that morning, but an hour afterwards, and on being asked about the shale said, "Oh, be d—d: I did it while I got some wood." On the part of the prosecution it was attempted to show that the prisoner had a dispute relative to his work, and that the filling up of STOPPING THE VENTILATION OF A COLLIERY.—At the Crown C

OPENING OF THE MANCHESTER SOUTH JUNGTION AND ALTRINCHAM RAIL-WAY.—This short line of railway, from Manchester to the pleasant little Che-shire town of Altrincham (the Hampstead of Manchester), is to be opened to the public to-morrow. The length is about eight miles, and passes through delightful scenery to a terminus within a short distance of the fine old English park of Dunksim Massey, the seat of the Earl of Stamford and Warrington.

park of Dunham Massey, the seat of the Earl of Stamford and Warrington.

ARTIFICIAL ICE—FTS APPLICATION TO SURGICAL PURPOSES.—At the Royal Polytechnic Institution, Dr. Bachhoffner has lately been itseltaring to crowded audiences on the subject of artificial ice, having chosen to said him, in illustration, the apparatus lately introduced to the public, and patented by Mr. Masters. The lecturer explained the laws of heat and cold—ties later being merely a negation, and is produced by robbing a body of its sensible heat, said thus leaving it in an opposite condition—a condition always profused when bodies were passing from one state to another more expended saids many paratus. Dr. Beschoffner explained, this during the new forms of the saids they are subject to such as they always profused when bodies were passing from one state to another more expended as the many paratus. Dr. Beschoffner explained, this during the new forms the saids they are subjected to the said they always profused when beddes were passing from one state in the saids they always profused they be repeated to the said that it during the of their calorie to such an extent, that water poured upon the vessel in which they are undergoing solution is immediately converted into its. Ammerous applications of the patent were shown: among others the free sign of desert to enthout the said of ice. This was accomplished in four minutes, the ice on profused to said an explication of the patent of the patent

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RIGHTS.

RAILWAYS AND RAILWAY ACCOUNTS.

Much has been said and written on Railways; but hitherto with little more effect than to render "confusion more confused." It is, therefore, with great pleasure that we hail the publication of this well-timed and well-written letter. Mr. Webb is evidently no mere theoretical or abstract reasoner, but he handles his subject with the confidence and the lucidness of a practical man. He states his more immediate object to be, to offer some suggestions on the course which he conceives would most effectually restore confidence in railway undertakings, by the amendment of the Clauses Consolidation Acts, 1845, and by judicious and timely assistance, rather than the imposition of new burdens, which would depress them still further than they are depressed at present. Mr. Webb here clearly alludes to the Railway Audit Bill, to which he is strongly opposed.

But, before we proceed further, there is one point on which we would be inclined to join issue with Mr. Webb. We are scarcely prepared to assent to the following:—

But, before we proceed further, there is one point of which we would be inclined to join issue with Mr. Webb. We are scarcely prepared to assent to the
following:—

Net only does the public call for Government interference, but a portion of the railway
interest Joins them; the object of the first being to secure lower fares, and that of the
latter the improvement of their property. The objects which both, therefore, have in
view are the same—vis.; individual benefit; but it is onlively forgotten that that which
would be advantageous to the public beyond what railways at present afford, would in
the same atto be inquirous to the railway proprietor; and although the object of both is
the same, the effect of a measure they agree in demanding could not be reciprocal.

We are strongly impressed with the opinion that the advantages of railways
are not yet fully developed, and we are disposed to think that, under more
economical and systematic management, they will be made to yield more profitable returns, and, at the same time, afford cheaper fares to the public. We
cannot but believe that a system, only in its infancy, will undergo many radical improvements before it arrives at maturity; it would be contrary to all
experience if it did not. Indeed, we think Mr. Webb himself will at once subscribe to this opinion, when we draw attention to another part of his letter,
where he refers to the Manchester and Liverpool Railway:—

The estimated cost of the works was 500,000£, and upon such as this estimate covered
500,000£, was expended; this did not include the warehouses, and sattions for the engines,
and carrying plant, which amounted to 200,000£ more. Additional capital was afterwards raised. Now, it must be recollected that the fares were fixed on the estimation of business to reimburss them the additional outlay. In passing, I
may remark that this points as a precedent to the fair and liberal course pursued by railway companies towards the public. The company was not mitaken in it expectations;
for, from

an export trade in coals especially was springing up, that was destined to become or great importance.

Now, all this tends to show that lower fares may be compatible with increased returns. There can be no better proof than that it has been so, and we are by no means convinced that it cannot and will not be so again. We do not profess the doctrine of finality in this matter; but if we were asked why we believed that railways could safely lower their fares gradually to a certain point, we would answer that they would receive a corresponding increase of traffic in consequence, which, coupled with better management, the result of experience, would fully counterbalance these reductions. We would nucicipate the future by pointing to the results of the past, and we could not do this better than by quoting from Mr. Webb's letter again:—

But what are the facts attendant or railway progress? Have not railways realised far more than was held out, or expected of them? Have they not been the means of creating trade and commerce in remote, and until the introducino for railways, dormant districts, and of increasing trade and commerce where it already existed? Has notevery facility and accommodation been afforded for cheap and speedy transit of passengers and goods? Have railways not been the means of opening up new channels of industry, of giving employment to a vast number of the population, especially among that class which would otherwise, in all probability, have become a charge to the State? Have they not voluntarily reduced their traitis? And have they not performed their part towards the public in a fair and honourable manner? If we look on either side, we see the great advantages accruing from the introduction of railways, without any of those counterpoising evils which their opponents foretold would result.

Mr. Webb has also taken great pains in compiliing a valuable table, to show the extent to which trade has increased since the introduction of railways, and he thus remarks:—

the extent to which trade has increased since the introduction of railways, and he thus remarks:—

No one can fall to be struck with the rapid increase which these tables show since 1930, and, as a natural inference, to attribute that increase to the only measure which has tended to create it—viz.: the general introduction of railways, the ready and cheap means afforded by them for the transit of merchandise, and the advantages arising therefrom. In the coal trade, we find an increase of 6,200,000 tons between the years 1821 and 4846, and that the iron trade owes its rise altogether to railways; for in the year 1821 and 4846, and that the first prade owes its rise altogether to railways; for in the year 1821, only 4023 tons were exported—whilst in 1846, it had increased to 426,205 tons; that Hartlepool and Stockton, from which no coals were exported in 1821, shipped no less than 1,329,393 tons in the year 1846; and it is not unworthy of remark, that the population of the country has made most progress in those countes where railways are the most numerous. Thus in the country of Durham, which possesses more railroad accommodation than any other country, it increased, according to the last census, at the rate of 27.7 per cent.; whilst Westmoreland, which was altogether devoid of railways, only increased to the extent of 28 per cent.

We have thought it our duty to say thus much in apparent opposition to Mr.

277 per cent.; whilst Westmoreland, which was altogether devoid of railways, only increased to the extent of 25 per cent.

We have thought it our duty to say thus much in apparent opposition to Mr. Webb's opinions, but we must not omit to notice the really valuable points in his letter. Alluding to the cases of mal-administration of companies lately brought to light, he directs attention to several of the provisions of 8 Victoria, cap. 16, to show that a remedy is there provided, and power placed in the hands of the shareholders to counteract such practices. He remarks that all these wholesome and effective provisions appear to have been overlooked by both the directors and shareholders, and as the former have disregarded their strict functions, so have the latter failed to availed themselves of their undoubted right and duty. But he adds:—

In the present state, however, of public feeling it is not enough to show that railway shareholders have, by their own indifference, brought the evils of mismanagement on themselves, or that the law gives them a remedy for providing against the publication of falsified statements of accounts; confidence has become so entirely shaken in railways, that some new and comprehensive measure is necessary for placing their management on a better footing, and also for relieving them from their pecuniary difficulties.

Mr. Webb gives the following statement of the railway interest up to the present time, which he considers as correct as circumstances will admit:—

Parliamentary Power granted for the Construction of Raulways.

 Parliamentary Power granted for the Construction of Railways.

 From 1801 to 1825.
 £3,520,000

 , 1826 to 1844
 98,291,897

 , 1845 to 1848 (inclusive)
 242,971,791=#344,783,688

## 1845 to 1848 (inclusive) ## 223,713,721 ## 2034,153,000

\*\*Powers exercised by Railway Companies, as by Parliamentary Returns.

| Received on account of Remaining Loans | Calls & Share Capital. | due. |

£131,910,368 11,288,006 33,844,187

£11,288,006 £33,844,187

£24,719,918 9 7

dr. TURNER
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Stated by the "Return" as balance of capital uncalled for in 1844 and previous, and up to Aug., 1849, 98, 281, 5241.; blance of mosey which companies retain power to borrow to Aug., 1849, 98, 281, 5241.; blance of mosey which companies retain power to borrow to Aug., 1849, 42, 387, 288; powers granted in season 1848, by share capital and loans, 14,650,4717. 155,289,383

Showing a discrepancy between the "Return" and powers granted by the several Acis, which is accounted for by a reduction in the original capital, and by other causes not stated, of... 12,451,744—£344,783,688

Consequent upon the large accession of power by companies, considerable progress was made in the execution of railways; and when it is recollected how severely the famine in Ireland, and the speculation ir "orn and other causes, pressed upon the energies and commerce of the nation, it is surp., "ig to learn the enormous sum expended: thus, in—

Was received on Remained due on Was raised account of calls.

2845, 2817,632,701 6 6 £ 439,216 8 2 £ 2,391,291 its 10 1846 £ 17,632,701 6 6 £ 439,114 0 3 6,315,005 its 6 1847 39,467,945 it 7 4,419,856 it 11 11,144,177 8 6 1847 39,467,945 it 7 4,419,856 it 11 11,144,177 8 6 1848 8,948,495 it 9 9 4,577,708 3 7 4,969,243 6 10 1 £85,433,396 5 5 £10,646,894 18 11 He also gives an account of the dividends paid upon different portions of capital invested in railways:—

In the year 1842, the returns upon 36 passenger railways, whose length amounted to 1356 miles, were as follows: Share capital, 32,500,0004.; loans, 14,800,0004.; receipts in 1842, 4,600,0004.; expenditure in 1842, 1,500,0004.; net profit, 2,500,0004.; per centage of expenditure to receipts, 43°2; and taking 4\$ per cent. as the average rate of interest paid upon loans on railway property, this left 1,856,5004, applicable to the payment of dividend on the jahere capital, which was equal to an average dividend at the rate of \$\frac{3}{2}\$ per cent. per annum, as shown in the following table:—

256,0001, (share capital) paid a dividend at the rate of 8,117,0001.

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But railway communication has been greatly increased since that year. Mr. Webb gives the following statement of the number of miles opened in 1848:—

During the year 1848, an increase was made in the railway communication of this country far exceeding that in any former year, the Commissioners of Railways having sanctioned the opening of 1191 miles in that year (as stated in their last report, May, 1849), of which 751 miles are in England, 289 miles in Scotland, and 151 miles in Ireland—making the whole extent of railway communication at the end of the year 5007 miles; the proportion for England being 3918 miles, for Scotland 728 miles, and for Ireland 361 miles respectively. The receipts for the year were—Passengers, 5,720,382. 3s. 124.; 9,933,592. 3s. 74d.

\*\*Section 1. \*\*Section 1. \*\*Section 2. \*\*Section 2. \*\*Section 3. \*\*Sec

able to throw off.

Although we cannot give our unqualified assent to several of Mr. Webb's arguments, yet undoubtedly many of his remarks are well worth considering. He treats his subject as one who is evidently conversant with its details, and we think that, on the whole, the railway interest is much indebted to him.

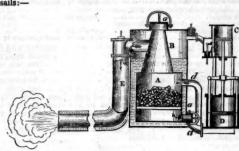
The Chester and Holyhead Railway, and its Prospects. By WM. MORGAN (a shareholder). London: H. Hughes, St. Martin's-le-Grand.

The object of the writer of this small pamphlet is to bring before the shareholders the Importance of the line, and, notwithstanding the cost of the undertaking, that it will eventually be remarkable for the extent of its traffic; and he strongly urges them, as the prospects are now of a most hopeful and cheering character, not to part with their shares at the present price, which is not more than one-sixth of their real value. In his few remarks on the character of the works he says—"In its course it divides broad estuaries, it penetrates the bowels of the loftiest mountains, and the hardest rocks have succumbed to the irrestable energy of human action and scientific skill; it crosses the important navigable rivers of Conway and the Menal Straits, by means of immense iron tubes at such an elevation as not to impede the progress of the largest vessels. Indeed, we may safely say, that there is not a line in England which links together interests of greater importance in a social, political, and commercial point of view, than this railway."

Institution of Legal Prockedings against Mr. Hudson.—A special meeting of shareholders in the York, Newcastle, and Berwick Railway Compan, postponed by repeated adjournments since May last, was held in York, on Thursday, to receive the report of the committee of investigation. In this report, the following extraordinary charges, which were partially stated in an ad interim report, are subtantiated:—I. That he had purchased 2345 shares of the Sunderland Dock Company more than the company had authorised him to do, and that he had charged them to the company without their knowledge or sanction, which the committee recommend the shareholders to repudiate.—2. That he had taken for his own use from the Newcastle and Berwick Company the extraordinary number of 10,394 shares, by which he had realized a profit of 145,704k., while the other directors appropriated to themselves 100 shares each. The committee condemning both these proceedings, recommend the shareholders to reclaim the shares from Mr. Hudson, giving him credit for 100 shares, but do not advise any proceedings against the other directors.—3. That the directors, being empowered by a public meeting to dispose of 2000 Brandling Junction shares, handed them over to Mr. Hudson. As it seemed to be understood that it was the intention of the meeting to give Mr. Hudson had applied cheques to be taken thereupon.—4. That Mr. Hudson had been interested in a contract which he must have known to be lingal.—And 5. That Mr. Hudson had applied cheques for payment for land to the extent of 31,000k, and cheques for "works" to the extent of 40,000k. to his own purposes, which sums, however, he had since repaid with interest. There was a very general feeling of indignation against the conduct of Mr. Hudson, and equally so against the other directors, for giving up implicitly the direct on of affairs to him, and bowing down to the golden cair as they had done. Among the speakers on this subject Mr. Wylie was the most straightforward and characteristic; he add he would not heelat INSTITUTION OF LEGAL PROCEEDINGS AGAINST MR. HUDSON. - A special into hesitate or shrink from declaring his honest opinion: he would say to the directors, face to face, he was glad they were present, as he should not have spoken so freely in their absence, but he would tell them that they had been guilty of very great cuipability—that their conduct had been characterized by a degree of subserviency, shich was diagraceful to them as gentlemen. He confessed, when he looked at their conduct towards that man Hudson, when he saw them so anxious to pick up the crumbs which fell from that rich man's table, he looked upon their conduct as alike diagraceful to themselves and to their control to the control of their conduct as alike diagraceful to themselves and to their control of their conduct as alike diagraceful to themselves and to their control of their conduct as alike diagraceful to themselves and to their control of their conduct as alike diagraceful to themselves and to their conduct as alike diagraceful to the substitution of the conduct as a substitution of the substitution of the conduct as a substitution of the substitution of the company, to commence such proceedings, either in law or equity, or both, as counsel may advise with respect to those matters or things, or any of them that may have arisen out of the investigations of this committee; and that the directors shall carry or the proceedings; that in the meantime the present directors be requested to attach the common seal of the company to the proceedings of this committee; and that the common seal of the company to the proceedings of this committee; and that the common seal of the company to the proceedings of this committee; and that the common seal of the company to the proceedings of this committee; and that the common seal of the company to the proceedings of this committee; and that the common seal of the company to the company. He would add, that the present committee of investigation be the committee.—Mr. Love seconded the motion: he had no doubt the shareholders would get back a considerable sum; if proper

### GORDON'S FUMIFIC IMPELLER.

In the Mining Journal of March 6, 1847, we gave a brief notice of some experiments under Mr. Alexander Gordon's novel proposal for propelling vessels, by employing the heated products of combustion on the principle experiments under Mr. Alexander Groton's novel proposal for propeling vessels, by employing the heated products of combustion on the principle of the rocket, instead of using the heat for the generation of steam for the steam-engine. For these experiments, into a boat 26 feet long and 4½ feet broad, he fitted a close furnace or retort, and a common small forge bellows. The close furnace being opened at top and at bottom, an intense fire was got up; the bonnets at top and at bottom were then luted and fitted tight. Each stroke of the lower portion of the bellows passed air through the close fire, and the hot products of combustion rushed out against the water. The boat, when tried with this apparatus, weighed in all 4375 lbs.; in other words, that weight of water was displaced by her flotation. The discharge pipe was 3 inches in diameter, and was immersed 12 in. Each stroke of the portable forge bellows sent cold air into the close furnace. The appropriation of oxygen to support combustion was immediate; and the heating of all the aeriform body which passed off under water was equally so. The products of combustion, almost altogether aeriform, but also occasionally mixed with smoke, dust, and ashes, rushed out under and against the water at a very high velocity (at a temperature of 800° or 900°), and impelled the boat in her course; the fire and one man blowing did the work of two men rowing. It was an old and crazy boat, and no calculations of speed or economy could, consequently, be depended on, but the patentee and many scientific men, who are aware of the results, consider sufficient has been done to warrant the carrying out experiments on an efficient scale. The following diagram explains the principle upon which Mr. Gordon would construct his furnace, and is supposed for a vessel of 800 tons, with 60-horse power, as an auxiliary, or substitute, for her sails:—



A is a section of one of two close furnaces, the fire inside being supported by the atmospheric air, forced in at either or both of the pipes, d, d, so as to be blown either through the fire or over it, as more or less power (i.e., intensity of fire) is required. The furnaces are opened once in two hours, and supplied with additional fuel by the upper close door, or bonnet, a. The blast of air being for the occasion turned off from the furnace which is to be opened. B, B, are boilers which surround the close furnaces. The water taking up the transmitted heat affords steam to drive the simplest form of steam-engine, C. The air-pump, D, is worked by the engine, C. The fires in the close furnaces are thus kept in activity and under complete control, and the products of combustion are allowed to rush out at a high velocity under the bilges of the ship, at a temperature of from 500° to 1000°; the discharge-pipe when inside, or in contact with, the ship being surrounded by a non-conducting medium. When the products of combustion have attained the temperature of about 500°, their tendency is to rush out even against a pressure of 15 lbs, per square inch; and when liberated, they do rush out at the rate of 1332 ft. per second, each of such hot-blasts through 1 ft. area of discharge-pipe under water giving an impulsive action equal to 4173 lbs. These discharged products cannot condense as steam would, and they cannot escape through the water, without giving the full extent of their impact, and thus propelling the vessel. The Lords of the Admiralty have now offered the use of a suitable ship, and it is proposed to raise a subscription of 4000l,, or such portion of it as shall give a fair opportunity of testing and demonstrating the merits and commercial value of the system, and five gentlemen of high respectability have consented to act as trustees and comptrollers. Should such experiments prove successful, each subscriber will be entitled to his share of the balance, and have the option of taking shares in a joint-stock

PROGRESS OF ENGINE-FACTORIES IN SWEDEN.—At the Motala Works, during the year 1848, there have been manufactured 2 engines of 120-horse power, 2 of 75, and 1 of 45, to be employed in Sweden, and on the Swedish coast; 1 of 160-horse power for Lübeck, and an iron steamer, with an engine of 15-horse power, for Riga. In addition to this, 17 steamers have been repaired at the above factory, together with a large quantity of steam machinery for distilleries and other works.

power, for Riga. In addition to this, 17 steamers have been repaired at the above factory, together with a large quantity of steam machinery for distilleries and other works.

Steam-Engine Improvements.—A patent has been secured, the specification of which is just published by Mr. Urwin, of Ashford, Kent, in which two very important objects are claimed—how to get the greatest possible effect from a given quantity of steam, and how to get back that steam recondensed, reheated, and re-evaporated, with all waste which may take place in the process amply compensated for. The putentee bases his improvements on the fact that, in the ordinary condensing or low-pressure engine, the motion of the piston is produced either by steam or low-pressure = 5 to 10 lbs. per mile—or by the pressure of the atmosphere alone, and that several attempts have been made to increase the efficiency of such engines by increasing the pressure of the steam without proportional advantage. That in the high-pressure engine the motion of the piston is produced solely by the pressure of steam, proportional to the velocity and completeness with which the clearance of the steam from the exhaust side is effected, and that both engines fall short of developing the full motive force due to the quantity of steam consumed. The specification states, that the first part of the improvements consists in effecting the clearance, or exhaustion, of the steam, in such manner as to combine in one engine the advantages peculiar to both the low and high-pressure engines, and to obtain from a given amount of steam, within a time given, better results than were ever before obtained, and that without the ald of the ordinary air pump. In this arrangement the cylinder is longer in proportion to the stroke than usual, and instead of being entire from top to bottom, is made with an opening all round at the middle, excepting four connecting pieces. The piston is made of such a depth in proportion to the length of the cylinder, that when it has reached the end of the strok

IMPROVEMENTS IN PISTONS.—A patent has been secured by Mr. W. C. Moat, of Upper Berkeley-street, for constructing pistons and stuffing-boxes of ongines worked by steam, air, or gases, in such manner, that they shall fit more exactly, and be less subject to change of form, and consequent leakage, than hitherto. The piston is formed with a top and bottom plate of such shape, that, when screwed up, there is a triangular groove round the outside, in which is placed an inflated tube of vulcanised caoutchouc, or other flexible or yielding material. A passage is bored down the piston-rod, joining a tube passing through the piston to the flexible circular tube. At the top of the piston there is a valve connected to a flexible tube and intervals by the engine—the flexible tube always being kept filled to a sufficient extent, will fit the cylinder close, and prevent leakage; or the air may be injected, when required, by means of a hand syringe.

A FALL OF BED RAIN.—Early on Saturday morning, the 30th ult, a shower of rain as red as blood fell near the village of Bonvilstone, and extended thence in a westerly direction over Liantrithyd, Flemingston, &c., towards Lautwit-Major; it was so manifest that it impregnated the closd so fearth, many of which were like ruddle. Several country people who witnessed it were dreadfully alarmed, imagining it to be some omen of coming misfortune, and very many who did not see it fall came in the course of the day to see the discoloured soil.—Cambrian.

<sup>\* &</sup>quot;A Letter to the Right Hon. Henry Labouchere, M.P., on Railways, their Accounts and Dividends; their Progress, Present Position, and Future Prospects; their Effects on Tade and Commerce; with suggestions for Government assistance, "&c. By C. Loocex (\*\*Ess. Loudon: Smith, Eider, and Co., Cornhill; Biggs and Sens, Parliament-street.

### Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK 

### LONDON AND WESTMINSTER BANK

The half-yearly meeting of proprietors was held at the offices of the company, othbury, on Wednesday, the 18th inst.

Thomas Charman, Esq., F.B.S., in the chair.

After the usual preliminaries, the following report was read:—

The directors have to report that the net profits of the bank, during the last half-year, are amounted to 38,739. 17s. 4d. One of these profits they now declare a dividend, at he rate of 6 per cent. per annum. After the payment of this dividend, there will relate the same of 27294. 17s. 4d. to be added to the surplus fund, which will then amount to 108,4534. 14s. 3d.

Ca.—By Government stock, Exchequer Bills, and India Bonds.
By other securities, including bills discounted loans to customers, &c.
By cash in hand. 964,800 13 7 3,010,867 15 2 552,642 9 1=£4,528,310 17 10

By cash in hand.

552,642 9 1=£4,528,310 17 10

Little discussion of interest followed the report, which, together with the accounts submitted, were unanimously adopted; but it was stated that the branches continued to work favourably, and that the business of the bank was steadily increasing.—The CHAIRMAN mentioned, in the course of some observations, that the joint-stock banks continue to be excluded from the privileges of the clearing house, but that he hoped the time was approaching when the private bankers would relax their prohibition, and admit them to the advantages of that system. One question suggested for the consideration of the board, and to which they promised to give attention, was the settlement of a limit to the reserved fund, so that any excess might at the proper period be distributed among the preprietary. The London and Westminster Bank now possesses a paid-up capital of 1,000,000l.

### LONDON JOINT-STOCK BANKING COMPANY.

The half-yearly meeting of this company was held on Thursday last, at the stablishment, in Princes-street, Bank, for receiving the report of the directors. William James Lancaster, Esq., in the chair.

Mr. F. Hewert (the secretary), read the following report and balance sheet: The annexed accounts, which the directors have the pleasure to lay before the share-olders, will inform them that the net profits realized by the bank during the six months anding the 30th June last, amount to 33, 438, 14s. 14. and that the sam of 18,0002, being peropriated to the half-yearly dividend at the rate of 6.6. per cent. per annum, there remains a balance of 15,436. 14s. Id. and vided profit; to be disposed of at the end of the year. The dividend of the control of the end of the year. The dividend of the control of the end of the year. Liabilities and Assets-June 30th, 1849.

pital paid up—vis., 60,000 shares at 107. each ... £ 690,000 0 0 nount due by the Bank ... 2,506,991 15 2 ant of "Guarantee Fund," Dec. 31, 1848... £128,765 0 6 onthis interest en ditto, at 31, per cent, per au. 1,331 9 6 - 130,696 10 0 onthis interest en ditto, at 34, per cent, per au. 1,331 9 6 - 37,580 18 0 Total ..... £3,295,169 3 2 

Profit and Loss Account, for the half-year ending June 30th, 1849. —To current expense, propertion of building expenses, directors' remuneration, bad debts, income tax, &c.

Ansount carried to profit and loss, new account, being rebate of interest on bills discounted not yet due

Dividend account for the payment of half-a-year's dividend, at the rate of 64 per cent. per annum, upon 600,00%, amount of paid-up capital upon 60,000 shares.

Balance, being undivided profit for the half-year

Total ..... £57,580 18 0

interest upon the guarantee fund at the rate or 3 per cent, per annum; it muss go on accumulating at that rate, for they could not take the interest towards an increased dividend.

Mr. Deputy Conney thought the question had better be left over till the mext meeting. He thought the directors would be inclined to stand by the opinion of the proprietors, that a sum of 120,000f, should be the maximum for a guarantee fund, and that they would, therefore, divide any surplus.

A. Moore, Esq. (a director), said if the hop. proprietor were flattering himself that he would see that 10,000f, distributed, in addition to any other bonus that might arise, he would be disappointed. (Laughter.) By the deed, it must accumulate by its own interest of 3 per cent.; it was, therefore, only by an alteration of the deed that the proprietors could get a larger dividend.

Mr. Sambrook looked upon their guarantee fund as a security for their dividend, and giving increased value to their property. There were many ladies, especially, who would prefer a certain and regular dividend, secured by a guarantee fund, to a much larger one that had no such certainty. (Hear, hear.) He thought there would be no harm in letting it go on to 200,000f, for the larger the sum the greater the security to themselves. He spoke this as one who held his shares as an investment, which he hoped to hand over to relations hereafter as something certain. (Hear, hear.)

A PROFRIETOR thought it was no security whilst it was employed by the bank; it would be a security when the question came to be settled that the guarantee fund should be invested.

G. H. FOSTER, Esq., said it was an security because they could go to that fund, in case of need, to make up their dividend of 6 per cent. (Hear.)—The report was then agreed to unanimously.

A vote of thanks was then passed to the chairman and directors never considered any application too close, or any labour too ardnous, to enable them, at their periodical meetings, to lay such accounts before the proprietors as would ju

### UNION BANK OF AUSTRALIA.

The annual meeting of this company was held, on Monday, at the bank in Old Broad-street, J. J. Cummins, Eq., in the chair.

The Secretary (Mr. Jackson) read the report, which stated that, since the last half-yearly meeting, the inspector had visited all the branches, and had expressed his admiration of the excellent condition of each, as well as of the prudence and good conduct of the several managers. The low price of wood in the mother country had caused much depression amongst the colonists, but had not disturbed the credit of the colony. The inspector spoke of the great increase of enterprize, and the growing importance of Australia. In Hobert Town the trading operations were very important, and as many as 40 vessels at a time had been entered in the harbour. Shipbuilding was also making great progress. The accounts from New Zealand were satisfactory, and at Wellington and Angkland the branches were generally profitable, and things bore the most cheering aspect. At Adelaide, in South Australia, a branch was about to be opened. The profits of the year enabled the directors to make the asual dividend of 6 per cent. per annum on the entire paid-up capital, and a further bonus of 5a. a share on the 32,000 shares, paid up, and in like proportion on the 22.10s, paid up on 8000 shares.

The CHAREMAN dilated on the topics of the report, and complimented the proprison on the satisfactory position of the bank.

Mr. Hichers enquired what was the amount of Government stock held by the bank?—The CHAREMAN replied, the same as at the last meeting—namely, 110,000? It had not been advisable to self at present. The annual meeting of this company was held, on Monday, at the bank in

oke, and R. Gardiner, Esqra, were elected directors, of the adoption of the report, which was seconded by Mr.

ART. HUCKLE INVESTIGATION OF Mr. JAMES, second to the motion of Mr. JAMES, second was passed to the chairman and discretablishment, when the meeting br onded by Mr. GRAHAM, a vote of thanks

### ST. KATHARINE DOCK COMPANY.

The half-yearly general meeting of the company was held on Tuesday, the 17th inst., in the Dock House, Tower-bill, for the purpose of declaring a dividend for the half-year, ended the 30th of June last, and for the election of 21. directors for the year ensuing.

THOMAS TOOKE, Esq., in the chair, who opened the business, and adverted to the purposes of the meeting, as described in the notice convening the same, which had been published in the Gazette, and in the usual morning and

The CHAIRMAN observed that, according to the provisions of the Dock Act, the accounts of receipts and expenditure were laid before the proprietors only at the annual meetings held in the month of January in each year, and inasmuch as the amount of dividend for the preceding half-year, at that time agreed upon, was understood to govern the dividend to be declared at the half-yearly esting in July following, the directors had merely on that occasion to propo at a dividend be declared, the same in amount as in January last—viz., 2 p

that a dividend be declared, the same in amount as in January last—vis., 2 per cent, for the half-year ended the 30th June last, on the capital stock of the company, and upon the instalments paid on the additional stock subscribed for; and it was farther proposed that the amount of income tax payable on such dividends be defrayed by the company, the dividend to be payable on Monday, the 128d inst., and following days, Sundaya and holiday a excepted; a resolution to that effect was thereupon submitted, and unanimously agreed to.

The next subject submitted to the consideration of the meeting was the ballot for 21 proprietors as directors for the year ensuing, and the appointment of scrutineers, who were appointed accordingly; but, prior to proceeding with the hallot, the Chairman briefly referred to the abstracts of returns of shipping with cargoes that had entered the pert of London during the six months ended the 5th July inst., in the present year, with a comparative statement for the corresponding period in 1848, and similar returns of the ships, and of their registered tomage, that had entered the St. Katharine Docks, and of goods landed therein during the half-years referred to, and quantity of goods in warehouse on the 30th of June, 1848, and present year, which returns were upon the table for the information of the meeting, and of which the following is a copy:—

TRADE AND NAVIGATION.

TRADE AND NAVIGATION.

FORT OF LONDON.

eturn of the number of ships, and of their registered tonnage, that entered the port of London with cargoes from foreign parts, distinguishing the British from the foreign ships, during the half-years ended 5th July 1848 and 1849:—

1848. Ships. Tons. 2671 ... 585,171 1256 ... 175,960 1849. Ships. .... 3105 .... 1388 761,141 4493 797,423

Merchandiss-St. Kathavine Dock.
LANDED DURING Six Months ended June 30, 1848 and 1849.

Tons. Tons. Tons. Less in 1849. ..... 48,247 ..... 4330 tons. Stock in warehouse on June 30, 1845 ....... 62,887 tons

Less in 1849 ..... 5,847 tons

THE ST. KATHARINE'S WHARF.—The St. Katharine Dock Company bay.

THE ST. KATHARINE'S WHARF.—The St. Katharine Dock Company have granted a lease, for a number of years, to the General Steam Navigation Company of the wharf and premises adjoining thereto, forming the river front of the south-west portion of the dock premises, well-known as the St. Katharine's Steam Packet Wharf, for the landing and embarking of passengers.

THE STRAM—SHIP, "GREAT BERTAIN."—The directors of the concern to which this leviathan steam-ship originally belonged are again offering her for sale by tender. The former transfer for 20,0004, appears, therefore, to have gone off. The Great Britain now lies dismantled in the docks of Liverpool. STRAM NAVIGATION IN INDIA.—A deputation of gentlemen, consisting chiefly of merchants connected with India, and officers of the Honourable Company's service, had an interview on Thursday with the chairoan and deputy-chairman of the Honourable East India company, to impress upon them the importance of opening up the cotton districts of the Deccas, and our newly-acquired territory the Punjaub, by means of steam-boats of an improved construction, to ply on the rivers, as recommended by Mr. Bourne, C.B. These vessels are expected to carry a large carge on a draft of water not exceeding 12 inches, at a high rate of speed, and with a capability of surmounting shoals and quick-sands, so as to ply night and day without interruption. The deputation was most favourably received, and it is understood that the subject auggested by them will be brought under the early consideration of the court of directors.

STEAM COMMUNICATION WITH AUSTRALIA.—A departation on this subject, consisting of Earl Talbot, Lord Lyttleton, Lord Polwarth, Mr. Divett, M.P., Hon. F. Scott, M.P., Mr. Mark Boyd, Mr. De Salis, Mr. Logan. Mr. Jackson, and Mr. Cifford, had an interview with the Chancellor of the Exchequer and the First Lord of the Admiralty, on Tuesday, at the official residence of the Chancellor of the Exchanger.

Ballway Communication.

Chancellor of the Exchequer.

RAILWAY COMPENSATION CASE.—A special jury was empanelled at the Swan Inn, Wolverhampton, to assess the sum to be paid to Messrs. T. and J. More, colliery owners of Tividale, Rowley Ragis, for the value of an acre of land required for the Stour Valley Railway, and was one among many cases which we have seen, where the cupidity of parties completely defeats their own object—that of obtaining an exorbitant price for their land. In this case the company had effered 4004, and to purchase peace had afterwards increased it to 5002; the owners demanding 4004 for the acre of land, and 24004 for the injury to their colliery by the severance. It was proved, however, that the demand was exorbitant and illusory, that the whole of the thick coal had been got at the existing pits, though the owners pratended they could get it cheaper by sinking new pits on the land in question, which the company's counsel showed would coat more than the minerals were worth. The Under Sheriffhaving summed up, the jury gave a verdict for 3504 for the land, and nothing for the severance, being 1502 less than the company's offer, and 24504 less than the demand.

### FOREIGN INTELLIGENCE

FOREIGN INTELLIGENCE.

South Australia,—An arrival from Adelaide, yesterday, brought us news to the 17th February, three days after that published in the Journal of the 7th inst.—later than which, however, had praviously been received by the Overland Mail. We learn that very little change had taken place in the sture market—indeed, scarcely any business had been done since our last report.—"Burra Burras may be called 150L; but there are neither buyers nor sellers. A sale has been reported at 160L three months; on those terms, 165L is now asked. Belyideres continue firm, and are certainly a favourite stock; two directors have just visited the firm, and report that four men, during the last letting, had broken 50 tons of rich argentiferous ore. This is valued at 600L; and the take being at 1s. 6d., is considered likely to leave the company about 550L, clear. The following may be quoted as selling prices at three months:—Port Lincolns, 54. Ss.; Princess Royals, 20L; North Kapundas, II. 6s.; Mount Remarkables, 10L. 10s.; Adelaides, II. 10s.; Prince Alberts, II. 10s.; Enterprise, 4L. 10s.; Wheal Gawlers, 18L; Paringas, 2L. 5s."

prise, 41. 10a.; Wheal Gawlers, 181.; Paringas, 21. 5a."

CAMPONIA.—Letters from the United States, by the America, report that gold continued to arrive in considerable quantities from California, and large sums had been remitted to Valparaiso, some of which was for American account; but the late news from San Francisco, by way of Mexico, was vary unfavourable. These dates are to the 18th May, when the country was reported in a miserable condition, both life and property being alike unsafe. The rainy season had set in, and the placers were covered with water; everything was more plentiful than gold dust. A number of vessels had arrived, and were still arriving with goods, which could be purchased nearly as cheap as at the United States. A great many persons had arrived at San Francisco, and were in a miserable condition, there being no houses to shelter them, and many had landed without a dollar in their pockets.

A correspondent at Philadelphia (July 3) writes—" We have later intelliging the season of the season of the control of the season of the s

in a miserable condition, there being no houses to shelter them, and many had landed without a dollar in their pockets.

A correspondent at Philadelphia (July 3) writes—" We have later intelligence from California, some of the details of which, I regrat to say, are of a disastrous character. Anarchy and riot are said to prevail at San Francisco, and it is positively asserted that General Smith had been frustrated in every endeavour to restore order, and finally compelled to seek after on board a vessel of war, or some other American vessel in the harboun." Several persons had been killed, and it is added, "noither life nor property is aste, soca. In San Francisco. Bloody work is anticipated between the Americans and forugness, both at the diggings and in the town." The population is of the most motley description and character, and its different characteristics and features are thus happily hit off by a California correspondent of the New York Express, who writes directly from the gold region. He says:—"We have great times at the 'diggings' where all the world has its representatives! Oval faced Chinese, greasy Sandwich Islanders, whole or none men from '54 40, 'skindimt Yankees from down East, chivalrous gentlemen from 'off South;' Hoosiers, Buckeves, and Kangaroos, from out West. Here, too, without number, are the subjects of her Britannic Majessy, chosek by jowl with the people who come from the territories of the King of the Cannibal Islands. All are scraping and scratching away, like so many hens on a dunghill; all the languages are spoken and taught; about every religion under the sun has its devotees, but all bow down before the shrine of Mammen, the God that has the sincerest and most enthusiantic worshippers—next to the Golden Calif."

Relative to the receipts of Californian gold at the United States Mint, a Phila-

siastic worshippers—next to the Golden Calf."

Relative to the receipts of Californian gold at the United States Mint, a Philadelphia journal says—"As our readers are all interested, more or less, and particularly so at this time, in everything relating to Californian gold, we present, for their information, the subjound statement, prepared for and furnished to us by Col. J. R. Snowden, treasurer of the Philadelphia Mint. The amount of Californian gold received at the Mint of the United States in this city for coinage up to June 28, is as follows:—Total ounces, about 58,458—equal in value to about \$1,050,000—a considerable portion of which has been received by the recent arrivals from that country. The valuation is made at \$18 the ounce. But little of the last lot of gold, brought by the Crescent City, has, so far, reached the Mint."

reached the Mint."

The Liverpool Mercury publishes a letter from Capt. L. H. Thomas, late of the Laura Ann. He was compelled to dispose of his vessel at San Francisco- and came away in the California. He bears out the statements of the hardships which many have endured; he states that wages were still very high, while provisions were comparatively reasonable, beef might be had at 10d. to Ia per ib. He states that few occupations would pay there better than a market gardener, the want of vegetables and fruits being much felt. He describes the climate of San Francisco as very healthy, the winters mild, frost and anow seldom experienced, and in summer the thermometer ranges from 56 to 70. He left eight specimens of gold with Mr. Warburton, master of the Liverpool Exchange Nowa-room, the whole weighing 20 cas. 11 dwts.

Vague, and no doubt deceptive, statements of mineral riches in the United States and elsewhere still abound, as a natural consequence of the Cahfornia excitement. A brig from New Grenada, just strived, has brought among her cargo "a bag of virgin silver, dug from the earth in that country," and the lead mines at Little Rock, in Arkansas, are now "found to possess a large proportion of silver, and it is believed will ultimately prove to be the richest silver mines ever discovered."

IMPROVEMENTS IN SEPARATING GOLD FROM THE ORE.—Mr. J. Babbitt, of Boston, Massachusetts, has obtained a patent for this purpose, of which he gives the following description:—"The nature of my invention consists in the causing of the gold or silver which is to be separated from the ore, or from other foreign or extraneous matter with which it is mixed or combined, to form an alloy with lead, instead of amatigameting these metals by meens of mercury, as has here-tofore been practised, and this I effect by taking the ore of the metal, duly pulverized and washed, or pulverized only, as may be found most convenient, in which I govern myself according to the nature offthe ore and other attendant circumstances; or I take the sweepings of other administers of the precious metals, and prepare them by burning, washing, or other known means, for the more easy combination of the contained metal, or metals, with the lead,—Claim: What I claim as my invention, and desire to secure by letters patent, is the exposing of the ore or ores, or combination or admixture of the precious metals with foreign materials, together with metallic lead, and charcoal, sal ammonia, or other flux, in closed vessels, in which the whole may be subjected to red-heat, for the purpose of causing the precious metal, or metals, to combine with the metallic lead, instead of amalgamating the same with mercury, for the purpose and substantially in the manner set forth, without intending to confine myself to any particular mode of constructing the apparatus used, but to vary this as I may think proper, whilst the principle of operation remains the same. In the apparatus, I claim, in combination with the vessel containing the molten lead, and provided with an aperture for the discharge of the impurities, and another for the discharge of the lead, the rotating plate, provided with the hollow arber for the supply of the ore, &c., and with the teeth for carrying the ore, &c., through the apparatus, and over the surface of the lead in the vessel, as described."

method of carrying the ore, &c., through the apparatus, and over the surface of the lead in the vessel, as described."

Maxupactures of Gold.—Under the head "Gold made by Art with loss to the Workman," Gabriel Plattes, in his Discovery of Subterranean Treasure, gives an account of his transmutation of iron and copper to gold. As this is divested of the mystic jargon of the sichemists, and written in perfectly plain language, we have thought it might not be uninteresting to those of our readers who have lately made experiments in the cabalistic science. His formula is this:—"I took 8 ounces of regulus of iron at copper, made as beneath is declared, and 16 ounces of common sublimate, cought at the apothecaries, and made these ingredients into a fine powder: first severally, and then I ground them well together, upon a marble stone, and so put them into a retort of a glass, and drew from them, first an oil, then a substance like butter, and lastly a yellow sublimate, tinted with the tineture of iron and copper, which yellow sublimate I rectified three or four times, till it was very pure; then I mixed it with equal parts of an analgam of silver and quicksilver, made as beneath is taught, and purit into another retort of glass, and forced away all but the silver, which remained like yellow horn; this yellow silver I amalgamated again with new quicksilver, and set it in a gentle heat above a week; then in a very strong heat for six hours, so that the quicksilver rose up and fell down again upon the silver, till such time as it had surried up all the silver from the glass into branches, like trees; then I melted down the silver, and fined it, and parted it with any affect it, and had divers grains of pure and good gold abiding all trials, but the quantity would not pay for half the charge and labour. I made the regulus thus; I took 4 ounces of round in stub nails, and made them red hot in a crucible, and then I put to it 8 ounces of crude antimony, and melted it wound in stub nails, and made them red hot in a crucibl

### Mining Correspondence.

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2 N The Commissioners of Inland Revenue having notified to us their resolve to charge with advertisement duty all reports having the agents' names affixed, we appealed to them is a memorial, setting forth that we, or the respective companies, derived no advantage interform—the only object sought, or obtained, being that of affording to the mine advantage interform of the statements periodically set forth, by authenticating them, and thus faing a repossibility on the writer. The Commissioners have replied, that "the reports, with amount attacked, are advertisements, and that duty will be charged thereon." We have alternative but submitting to their dictum. How far the Commissioners are correct in the view they take, our readers oan jadge as well as courselves;—we can but loope that or reflection, they will see the error into which they have failen, and reacind the orders they have fasted. All reports inserted under titls head, however, may, as heretofore, bo considered as furnished by the regular agents of the company; and we shall carefully guard against the publication or statements which cannot be relied on as correct.]

BRITISH MINES. ALFRED CONSOLS.—The lode in Field's engine shaft, sinking under the 10 fm. level, is 6 ft. wide, and the ore course, on the south part, is from 18 in. to 2 ft. wide, good saving work. In the 50 fm. level, west of engine-shaft, there has been no lode proken for the last week; it he lode in the 50 fm. level east is without change, neither is here any change in any other part of these mines. I have not seen the lode in the shaft.

1. The property of the water being in, owing to a small breakage, but Capt. Hosking says the lode is setter in the shaft.

ASHBURTON UNITED,—The lode in the rise, at Hobson's 25 fm, lavel, on the north lode, is coarse and much disordered. I have suspended the tutwork in that place for the present, and set it on tribute for copper and tin at 10s. in 11. In this level, driving west, the copper has disappeared, but the lode remains large, and probably will return to tin; at present it will not pay for dressing. The pitches in the back of the 45 fm. level are producing about 2 tone of tin per month. The other portions of the north lode, opened on in the 55 fm. level, are under water, in consequence of our great wheel being unable to keep the pumps going, caused by the late very dry wather. On the southern lodes we have cut a promising branch of tin, which inclines south of the workings eastward. I have, therefore, put three mes and a boy to drive south in the adit level opposite Murray's shaft, to cut the said branch 25 fms. further east, and I hope to intersect its by driving 5 fms., at 50s. per fm. We are raising large quantities of tin orgo in the eastern part of the mine from the backs in the Union adit, which produce from 1 qr. to 3 qrs. of tin to the ton; but in consequence of the late dry weather our stamps are unable to do half their usual duty towards returning it. There is a considerable extent of greated in this part of the mine, which will work at from 10s. to 12s. in 12; the lode is very large, and 30 fms. cast of Teagan's shaft it is heaved by a slide, and by my dialing the each of the south. A cross-cut to rectify this error, will be about 10 fms. In extent, at 50s. or 3t. per fm., and would leave backs of 40 fms., in a congenial light strata.

BARRISTOWN.—The lode in the addit end driving south is at present cut off by a slide. The lode in the back of the addit level, west of slide, is looking rather better, producing in parts 16 ewts. of lead per fm. The stopes in the bottom of the addit level are looking much the same as last reported, producing from 10 to 16 ewts. of lead per fm.

BEDFORD UNITED.—At Wheal Marquis, th ASHBURTON UNITED.—The lode in the rise, at Hobson's 35 fm. level

worth about 3 tons of ore per fin. There has been no lode taken down in the 90 fm. level east. The lode in the 70 fm. level east is 3 ft. wide, producing good stones of ore, and very kindly.

BLISLAND CONSOLS.—We have driven through the higher lode, which is 5 ft. big, with a beautiful regular foot wall, and underlaying 1 ft. 6 in. to the fm.; the lode is composed of tin stuff, with large flakes of mica and good stones of tin, all fit for the stamps, and good saving work. It is a champion lode, and carries the country with it: we are now sinking to take it at its junction, which we shall intercept this week. We have six men in the deep adit, which will come into this lode about 12 fms. under the junction at the present workings, where we shall have good backs to stope away. Ishall put two men cestaning to hill this next week, for the purpose of seeing the other lodes which have been worked on the backs by the ancients. I have no question of our having a good and rich tin mine, and we shall make large returns of tin early in the spring from present appearances. Capt. Gregory was here on Thursday last, and was surprised to see such a lode, and be thinks that at the junction we shall have a good branch of tin. Gregory took some stones from different parts of the lode, and bruised down and brought up good vans of tin on the shovel, and stated that all the lode was good saving work.

CALLINGTON.—In sinking Kelly Bray engine-shaft below the 32 fathom level, the lode is still in a disordered state. In the 20 fm. level, east of Kelly Bray shaft, the lode is 18 ft. wide, still producing good stones of ore. In the 70 fm. level east, on Kelly Bray lode, the lode is 2 ft. wide, with spots of copper ore. In the 70 fm. level east, on Kelly Bray lode, the lode is 2 ft. wide, with spots of copper ore. In the 70 fm. level east, on Kelly Bray lode, the lode is 2 ft. wide, with spots of copper ore. In the 70 fm. level east, on Kelly Bray lode, it lode is 2 ft. wide, with spots of copper ore. In the 70 fm. level east, on Kelly Bra

towards dressing.

EAST TAMAR CONSOLS.—The shaft is down 10 mms, below the 70 fm, level, and I purpose driving on Monday next; I should have continued sinking for other 2 or 8 fms, but that the life is now 20 fms, long, and sery unhandy. The lode and ground is much improved during the last fortnight, and there is every prospect of the 80 belog a good productive level. In the 70 end south, and in the 11 fm. level north, the lode is better than for some time past. There is no alteration of importance in other places. The pitches are generally looking well, and there is but little doubt that our next sampling will be quite equal to the last.

pitches are generally looking well, and there is but little doubt that our next aampling will be quile equal to the last.

ESGAIR LLI.—The south lode, in the stopes in the bottom of deep adit, east of the engine-shaft, is about the same as last reported. In my last report, i informed you the north lode, in the deep adit east, was increasing in size, and more water coming from the present end, and the lode producing more fine lead in the small than in the rough—the whole of the small containing lead, but not sufficient to put a value o.1; since which the lode is much improved, and is now 3 ft. wide, and will yield, on an average, from 4 to 5 ewts. of ore per fm., and looking very kindly, with much water coming from the present end, and will produce as good a stone of lead as I ever saw. The lode in the wince below the shallow adit is looking much the same as last reported.

EXMOOR WHEAL ELIZA.—The caunter lode in the 24 fm. level is not so large as when last reported on, but we present there is another portion thereof a little to the north; this we shall ascertain in a day or two. The cross-cut north, in the same level, is being driven about 6 ft. per week; it he engine continues to work well.

HOLMBUSH.—The lode in the 120 fm. level south is 3½ ft. wide, composed of quartz and lead, awing work; the lode in the 120 fm. level, cast of Hitchina's shaft, on the south part, is 8 in. wide, producing 1 ton of ore per fm.; the ground in the 120 fm. level cross-cut south, towards the flap-jack lode, is still favourable, being a beautiful white killas stratum. The lote in the 110 fm. level out is 3 ft. wide, and will produce of the level such is 3 ft. wide, and will produce of the level are at present poor. The lode in the 100 fm. level cost of the great cross-course since last reported on. I hope Capt. Prince has sent you the produce of the last partal of silverlead ores, computed of tons.

HEIGNTON DOWN CONSOLS.—Bayley's engine-shaft progresses sa-

HEIGNSTON DOWN CONSOLS.—Bayley's engine-shaft progresses satisfactorily. The 35 m. level, both east and west of gross-cut, continues without important alteration since my last. The lode in Hitchene's shaft is increased in size during the present week, and producing occasional stones of copper ore.

KIRKCUDBRIGHTSHIRE.—The lode in the 50 end east is 3 ft. wide, has a fine spar with it, spotted with ore, worth 5 cwts. of lead to the fathom. The lode in the winze in the 40 cast, over this end, is 2½ ft. wide, with spots of ore in places. The lode in the 50 end west is 2 fest wide, with a fine spar, yielding 6 cwts. of lead per fm. The lode in the winze in the content of the spar in the spar is size, and fine spots of ore coming in it. The lode in the winze, under the 40 fm. level west, is 2½ ft. wide, yielding 4 cwts. of lead per fm. The lode in the 40 end west has improved this week, having a small branch of ore coming in it again. We have got the water in fork to the 50, and put down the pumping iff to the 65 fm. level, which we loope will be all in forle in the beginning of the week; the pitwerk answers well.

LAMERHOOLE WHEAL MARIA — [The stones of converger from the ELAMERHOOLE WHEAL A service of converger from the ELAMERHOOLE WHEAL A service in the tops of the service of converger from the ELAMERHOOLE WHEAL MARIA — [The stones of converger from the ELAMERHOOLE WHEAL MARIA — [The stones of converger from the ELAMERHOOLE WHEAL MARIA — [The stones of converger from the ELAMERHOOLE WHEAL MARIA — [The stones of converger from the service of c

ginning of the week; the pitwork answers well.

LAMERHOOE WHEAL MARIA.—The stones of coppor ore from the F lode, lately intersected in sinking the engine-shaft at 59½ fms. depth, and forwarded by the agent to London, have been torpected by several experienced parties, and are pronounced an excellent average of the ore of the district. The stones of spar from the cross-course in the same shaft are, however, of a decisive character for lead, being of the most delicett exture; and, although coated and impregnated with both copper and mundle, our informants are decidedly of opinion that, in depth, a lead lode will be most with. It is how upwards of three years since the engine was erected, and placed so as to work the F lode; and it is hoped the adventurers are about to be rewarded for their particles and perseverance, and an outlay of nearly 16,000%, by a rich course of ore in this sinft. The Davey's shaft is also in successful progress, being nearly 47 fms. down, and as it is intended to explore the H. I. K. L., and M lodes from a 50 fm. level, the adventurers may expect some decisive results in the course of another six weeks or two months,

as it is intended to explore the H. J. K. L. and M lodes from a 50 fm. level, the adventurers may expect some decisive results in the course of another six weeks or two nouths, either from the engine or Davey's shafts, or both.——July 16.—In the engine-shaft the cross-course is very large, and there will not be mutch progress made in sinking until we cut through it. At Davey's shaft, we expected to reach the 50 in August, but fear we shall not accomplish it in that time, having several floors or beds of spar of late to encounter with. The men are doing their best, and we are making every exciton we can.

LEWIS.—The lodes in the 70 east is much improved since my last, it is now a ft. wide, 1 ft. of which is good saving work; the 70, east of engine-shaft, on south branch, is worth 54. per fm.; the 70, east of faudier road wirnse, on south branch, is nowth 13. per fm.

The 60, east of engine-shaft, on south branch, is worth 14. per fathom; the 60, west from engine-shaft, on south branch, is producing some good quality this tarf, the lode in the 60 east, on Cock's branch, is 160 wide, awing work; the wine ainking below the 60, on Cock's branch, is 160 wide, awing work; the wines ainking below the 60, on Cock's branch, is 160 wide, awing work; the wines ainking below the 60, on Cock's branch, is 160 wide, worth 41. per fm.; in the rise in the back of this level the lode is if it, wide, opening good tribute ground.

MENDIP HILLS.—The beds of slagstuff in Charterhouse Valley call for no

MENDIP HILLS.—The beds of slagstuff in Charteriouse Valley call for no particular remark, being precisely the same, as regards quantity and quality, as when I last wrote to yout—viz. a about 16 feet thick, some part or which yields good slags. The masons are getting on favourably with the reverberatory furnince; the walls of the furnace-home are also in a forward state; I hope to see it everent in by the end of the present week. In Blackmoor, it is pleasing to state the beds of slagstuff which we are at

resent laying open look remarkably well. The engine will be brought home this even-ng, when we shall immediately commence putting it together.

NANT-Y-CRIA.—The new lode, in the shallow adit west is about the same

as assembled.

SOUTH DOLCOATH.—The engine-shaft is now completed to the 60 fm. level, and plat cut, &c.; we have commenced sinking the shaft below that level—the lode in which is 3 ft. wide, composed of spar, pri-n, and spots of ore. In the 50 fathom level west the lode is 2 ft. wide, and kindly. In the 40 fm. level east the lode is 4 ft. wide, with occasional stones of ore. We have four men driving a cross-cut in the shallow level, with the intent to prove the ground through the sett, which will cost about 15a per fathom for driving.

shom for driving.

SOUTH TAMAR.—We have a decided improvement in every point of our operations. The 101 fm. level is cleared north about 18 fms.; the lode in the back is rhanding up to the 90, with the exception of a short sink or two; it is not rich, but will set at an moderate tribute; south of the shaft we have not been able to clear more than 2 fms.; in the 90 end south the lode is worth from 11 to 13 evits, of rich ore per fathon, and presents a most encouraging appearance; the pitch in the back of this level is also looking very well. In the 80 fm, level south the lode in the end is worth about 6 evits. of ore per fm. We have three pitches working in the back of this level—in all of which the lode is very much improved, particularly in the inside one, where it is yielding at least 14 cwts. of lead per fm.; in the winze sinking in the bottom of this level, there is a very fme lode; the last fathom has produced much better work than any we have as yet raised; this winze is about 18 fms. from the end, and about 12 fathoms before the 90 end. In the 30 fathom level the overy part of the lode is about 15 inches wide, and yielding excellent work.

SOUTH WALES MINES—The lode in the Bodeoil deep adit cast. is 18

yielding excellent work.

SOUTH WALES MINES.—The lode in the Bodeoil deep adit east, is 18 inches wide, and looking more kindly than when last reported. The lode in Dolwin deep adit, east of the Rhydnent river, is 5 ft. wide, and is now producing some good stones of lead, with copper and mundic, and looking more kindly than when last reported.

SOUTH WHEAL TRELAWNY.—The engine-shaft is in course of sinking, and also cutting ground for plat at the same time, with nine men; the ground is not quite so favourable as when last reported; things are also in a regular course of working. We have sunk below the 30 fm. level about 10 fms.

and also cutting ground for plat at the same time, with nine mon; the ground is not quite so favourable as when last reported; things are also in a regular course of working. We have sank below the 30 fm. level about 10 fms.

WHEAL VINCENT.—The stopes on the south look well; we have taken down the lode, and find it still continues good; there is no material alteration in sinking on the north lode since last reported on—still good stamps work.

TAMAR SHLVER-LEAD.—The shaftmen are engaged fixing a plunger in the 110 fm. level, which I hope will be complete by to-morrow, when we shall again commence sinking with all possible dispatch; in the 130 end there has been no lode taken down since last reported on. In the 175 ond the lode is still large—27 h. of which is good stamps work. In the 160 end the lode is 2 ft. wide, yielding good work. In the 145 end the lode is also about 2 ft. wide, and opening profitable ground. In the 135 end the lode is 18 inches wide, producing work of a rich quality. At North Taman, in the 30 fattom level, the lode is small, occasionally producing good stones of ore, but not to much value. In the north end, in the 70 fm. level, there is a little improvement; the branch on the west side of the end is 15 inches wide, and yielding good saving work; in driving south, in this level, we are passing through ground that will work at a moderate tribute. We sampled for June month, computed 190 tons of rich silver-lead ores.

TINGROFT.—At Palmer's shaft, on East Pool lode, sinking below the 90, the lode is 3 ft. wide, with sones of copper ore; the stopes in the back of this level are worth 40. per fm. for copper. In the 70 fm. level west the lode is 1 ft. wide, with good stones of copper ore; the stopes in the back of this level are worth 40. per fm. for copper. At North Theroff the engine-shaft, sinking below the 100 fm. level, the lode is 3 ft. wide, with 200 stones of copper ore; the stopes in the back of this level are worth 40. per fm. for tim, 1 the 94 fm. level, east of willoughby's shaft, th

the so in, level west the tode is 2 ft. "net, worth 10. per in, 100 th and copper. At wheel, with spots of ore.

TRELEIGH CONSOLS.—Garden's shaft, below the 113, is sinking in favourable ground. In the 90, west of ditto, lode 18 in. wide, with good stones of ore. In the 80, west of ditto, lode 18 in. wide, with good stones of ore. In the 80, west of ditto, lode 15 in. wide, worth 32, per fin. In the 80 cross-cut, north of ditto, we have cut the lode, it is 1 ft. wide, with stones of ore. In the 70, west of ditto, lode 2 ft. wide, with good stones of ore, and looking kindly. In the 60, west of ditto, lode 2 ft. wide, with stones of ore. At Wheel Farent, in the 30 cross-cut, north of engine-shaft, we have cut the lode, which is 30 in. wide, and worth 10, per fm. In the 120, west of ditto, lode 1 ft. wide, but little ore. At Parent's whim shaft we are opening plat, and greparing to sink to the 20. At middle lode, in the rise above addit, lode 18 in. wide, worth 42, per fm. The shaft 18 9 fms. below the surface—no lode cut as yet.

WHEAL TRELAWNY.—At Phillips's shaft the 82 cross-cut is extended 8 fms. eastward. The lode in the 72, north of this shaft, is 2 ft. wide, and worth 10. per fm.; in the same level south the lode is 1 ft. wide, and worth 10. per fm.; in the same level south the lode is 1 ft. wide, and worth 10. per fm. in the same level south the lode is 1 ft. wide, and worth 10. per fm.; in the same level south the lode is 1 ft. wide, and worth 10. per fm.; in the same level south the lode is 1 ft. wide, and worth 10. per fm.; in the same level south the lode is 1 ft. wide, and worth 10. per fm.; in the same level south is 1 ft. wide, and worth 17, per fathom; the stopes in the back of this level continue to be fairly productive. The lode in the winze under this level south is 1 ft. wide, and worth 17, per fathom. At Trolawny's shaft the cross-cut in the 72 fm. level is extended wost 4 fms. The lode in the back of this level continue to be fairly productive. The stopes in the 42 north are also productive;

this level are, as smally, productive. The stopes in the back of the 30, north of this shaft, are also productive. On the 11th instant, we sampled a parcel of ore, computed 105 tons, which will be seld on the 20th inst.

WEST WHEAL JEWEL.—In the rise, in the back of the 70 fathom level, west of Williams's cross-course, on Wheal -fewel lode, lode not taken down in the past week; when last taken down worth 22, per fin. In the winze sinking in the bottom of the 57 fin. level, west of ditto cross-course, on ditto lode, the lode is worth 42, per fin. The 47 fin. level, west of ditto cross-course, on ditto lode, is unproductive; the deep adit, west of ditto cross-course, on ditto lode, the lode is worth 44, per fin. The 47 fin. level, exet of 'Progoning's shaft, on Tolearne the lode, the lode is looking promising for tin. The stopes in the back of the 12 fin. level, exet of 'Pryor's winze, on the same lode, is worth 144, per fin.; the stopes cast of this winze, on the same lode, is worth 144, per fin.; the stopes ast of this winze, on the same lode, is worth 144, per fin.; the stopes are working on tribute.

WHEAL MARY ANN.—In the course of the past week we have commenced sinking Pollard's shaft under the 50 fin. level, but the ground is at present hard. The lode in the 30 fin. level, north of this shaft, is 2 ft. wide, and worth 42 per fin.; in the same lode, so with 144 per fin.; the lode in the 30 fin. level, north of this shaft, is 4 ft. wide, shaft shaft, is 4 ft. wide, and worth 45, per fin.; in the lode in the 30 ftm. level, north of this shaft, is 4 ft. wide, shaft worth 45 per fin.; in the lode in the 30 ftm. level, onto the same level south, the lode is 2 ft. wide, and worth 45, per fin.; in the lode in the 30 ftm. level, north of the shaft, is 4 ft. wide, and worth 65, per fin.; in the lode in the 30 ftm. level, shaft is suspended, in consequence of an increase of water, and the men are driving north for mit is winze, where the lode is 5 ft. wide, and worth 65, per fin. the slopes in the back of this level

### FOREIGN MINES.

FOREIGN MINES.

IMPERIAL BRAZILIAN MINES.—Bananal, May 14.—At this place, since my last respects, there has not been a single alteration in the mine worthy of recording. Catta Preta wheel is now working a pump in Gibson's shaft, and thus sides at Thomas's, in which we are necessary of re-arranging our pit-work. The extension of our adits southward towards Brightman's shaft will be resumed as soon as we have overcome the obstruction caused by crushing of the ground south of Hollingsworth's.

From Gongo, from 3d to 12th May.

Eacht Report.

Total from 1st Jan.—Gongo

List. 5 1 0 0

Bananal Ditto 20 0 0 7 11 6 0

Total from 1st Jan.—Gongo List. 6 10 0 0 0 7 11 6 0

NATIONAL BRAZILIAN MINES.—Cocaes, May 42.—In the backs, above Hartley's eastern stope, there is a little improvement in the appearance of the lode, at which point we are anxiously looking, forward for some good velus. Produce, 2 mis. 6 css. 1 oft. 55 grs.—A remittance has been received by H.M.S. Adventure of about 1000/L.

ST. JOHN DEL REY MINES.—Morro Velho, May 8.—Produce for April.

ST, JOHN DEL REY MINES.—Morro Velho, May 8.—Produce for April, 22,672 cits.—218 lbs. troy, from 5075 tons of ore, yielding 3°73 cits. per ton. This is a better result than at the beginning of the month I had ventured to anticipate.—It is creditable to the watchful energy of the chelst of the two departments principally concerned —say, the mine and reduction departments—and will, I have no doubt, be satisfactory to the board. The stamps workings, during the month, average 399 heads. The supply of stone, though kept up with great spirit, is not sufficient for our stamps. We have been obliged, during the month of April, to bring in 492 tons from the refuse heap—rejection of killas, or lapu, being wholly out of the question.

Cost of April, rs. 45,796 175, £z. 554.

L84855 16 10

Produce, 32,672 citavas; less duty, 7 per cent., 1587—net citavas, 816 13 10

Extract from Capt. Trelear's Mine Report, for April, 1849.

The lode as a whole never presented a more cheering aspect than at present. It is not

### ROYAL SANTIAGO MINING COMPANY.

In our last Journal we gave a copy of the directors' report, with a full notice of the discussion which followed its reading, at the meeting of shareholders, on the 11th inst., and the following is an abstract of the accounts then presented:

Da. Abstract of Balances, June 30, 1849.

ž.	Da. Abstract of Batanoss, June 30, 1849.			
Section of the last	Money at interest, at bankers, and bank of England£20,215 6 3 Copper ore at Swansea			
900		705		
1	Profit and loss account, half-year ending 28th February, 1849 (particu-		-	200
	lars as under*)	226	3	9
	Total 128,1	147	1	9
20 20 20	Cs. Working capital account. £25,7 Bills payable—current acceptances 2,4 Due to sundry parties at date.	318 186 341	7	8
	Total £28,1	47	1	9
	DR. * Profit and Loss Account—Half-year ending February 28, 1849.			
	Wages, arriage, export duty in Cuba, materials, and miscellaneous expenses, as per accounts on the table	845	7	1
l	Ca.	-	-	-
1 1 11 11				
d	Total £ 7,	645	7	1

### GREAT POLGOOTH MINING COMPANY.

A meeting of adventurers was held, at their London offices, 38, New Broad-street, on Thursday, the 19th inst., when the finance committee laid their ac-counts for the last two months before the adventurers, showing—

Da.—Paid in June and July, cost of April and May—wages and incidentals.  Carriage and horse work.  Coals.  Materials and stores  Rates, rents, dues, &c	300 415 545	14 0	9
Total	£4165	15	3
Ca.—Tin sold in June and July (128 tons 3 qrs. 10 lbs.)	£5207 254	1 7	8 5
Total	£5461	9	1

A dividend of 4t. per share was declared, leaving 271t. 13s. 10d. to credit of profit account for the September meeting, with assurance of continued progressive improvement in the mine.

### BWICH CONSOLS MINING COMPANY.

A meeting of shareholders, resident in London, was held at the offices of the company, on Wednesday, the 18th inst., when a detailed report was presented by Capt. Matthew Francis, who was present, and who laid before the proprietors the following statement of the accounts of the company, for 11 months, from June, 1848, to April, 1849, both inclusive. The contract price for the ore is 12th, per ton, which is about the average worth—

1848.	C	ost.			Ref	urn	8.		Ro	yalt	y.		Pi	ofit		Loss.
June	£687	0	0		£720	0	0	****	£ 75	0	0			_		 £42 0 0
July	720	0	0		1320	0	0		137	10	0		£469	10	0	 7.0
August	704	0	0		1200	0.	. 0		125	0	0		371	0	0	 
Sept	1104	0	0		1200	0	0		125	0	0			_		 29 0 0
October																
Nov																
Dec	580	0	0		720	0	0		75	0	0		65	0	0	 all aller
Jan., 1848	746	0	0		1128	0	0		117	10	0		264	10	0	
Feb	758	0	0		1080	0	0		112	10	0		214	10	0	
March	622	0	0		802	15	0		81	5	0		99	10	0	 -
April	628	0	2		836	17	6		81	5	0		127			
		-	-	200		10	-	4	81100	10	-		*****	-	-	44. 5 4
bus and	7944	0	3	£	0,749	12	0		E1105	10	0	3	71		0	£71 0 0

tion, and buildings as the conveniences for work have been extended to are also the halvans. We have caused experiments to be made, by at fall 36 tone of ore a month are broken and landed at the surface, has yet been obtained. A very powerful and excellent creabing-mild, preparatory to their reduction; and when we are able to dress the set, they will leave a good profit yearly. The raisings since June have to drow pounthly. The running cost on that which would have to be all machines exceed, would be 650t, which, at an average price lave 50t, per month profit, besides the halvans, which would give

for the ore, would have 20th, left month profit, besides the halvans, which would give about 390d, more.

The dispatch in taking kway the ore ground has not been so great as I could wish, or the state of the mine would justify. The quantity of ground laid dry by sinking under the 15 h. level, since the commencement by the passent company, has been 3100 cubic fins. The whole of the ground taken away for ore, including shafts, levels, and winzes, has been 1799 fms., leaving a balance of 1331, to which must be added 1430 fms. in the back of the 16 fm. level—making together 2700 fms. of ore ground, which, at 10 cwts. of orce to the fms., would give between 1300 and 1400 tons of ore now discovered in the different levels. I expect in the ensuing 12 months to open 3000 fms. of ore ground, and to be able to continue to do so annually; and if the ore ground can be exhausted at two-thirds of this rate, it will give a monthly return of 130 tons of ore. The principal cause of delay has been deficiency in the drawing power: as the mine has become deeper our power has been found insufficient to draw above half the ore we can break. A small high-pressure steam-engine is now erecting at a cost of about 1901; this engine, we calculate, will be able to raise stuff enough to make 120 to 130 tons monthly. From what I have stated, I hope it will be clear to the proprietors that the ore has been obtained by working the ground economically, and that the sales have not been the result of underly forcing the ore ground; it he reverse of this appears to me so manifest, that I feel it unnecessary to make any further remark upon the subject. The ore ground is just as productive as it has been aince the commencement of the mine.

### FOURDRINIER'S PATENT SAFETY APPARATUS, FOR PREVENT ING ACCIDENTS IN MINES AND COLLIERIES.

ING ACCIDENTS IN MINES AND COLLIFERIES.

Sin,—On looking at the sketch of Mr. Fourdrinier's apparatus for preventing accidents arising from the breakage of ropes or chains, it occurred to me to sak, what becomes of the detached portion of rope or chain in case of breakage? For instance, if the rope or chain breaks 100 yards above the cage, is the broken portion suspended in the shaft, or does it fall down upon the cage? If the latter, what security does the invention give to the men, as the rope, or chain, falling upon them would inevitably be fatal? Perhaps, it is intended to make the top of the cage of great strength to resist the blow; but will not the weight of 100 yards of rope, or chain, falling down that distance, be sufficient to carry away the cage, guides, and all the apparatus together? I merely write for information, and not from any wish to detract from the merits of the invention.—A NEWCASTLE COLLIER: July 16.

[We believe Messrs, Fourdrinier have proposed the adaptation of a strong

[We believe Messrs. Fourdrinier have proposed the adaptation of a strong ron arched roof, to receive the remnant of the broken rope or chain, and in more cases to have the platform for the men beneath the cage, as a protection. We do not think the broken chain would carry the apparatus away with it, he wedge-like nature of the principle being immoveable.]

### ON THE BEST METHOD OF WORKING LARGE LODES.

ON THE BEST METHOD OF WORKING LARGE LODES.

Sin,—The working of large lodes, particularly that of the Bwlch Consolidated Mines, having lately affacted some attention, I beg to offer you a few remarks on the economy of working lodes of different widths. My attention was called at an early age (some 24 years ago) to this abulject by the working of the lode at West Wheal Alfred Mine, and it has since been a matter of much interest to me, as I have been much practically connected with the working of very large veins. The lode in West Wheal Alfred was from 12 to 15 ft. wide; it was stoped underhand, and stulls of whole pieces of the balk were put in over head, for the purpose of receiving the rubbish, and securing the mine; but as these series of beds of timber occurred every 8 or 9 ft., the system was so coally, that is appeared to me something more economical might be devised. Some time after this, about 20 years ago, I was engaged in working the Aroa Copper Mines in Venezuela. The lode was 76 ft. wide; a portion of it, containing the richest ore, was worked and supported with timber. This timber consisted of lock pieces, formed by several balks being cramped together by iron staples, to the size of 4 ft. deep and 2 ft. wide—a system strended with no other inconvenience in America but that of felling the timber, and its carriage and future in the mine. On my taking an agency in South Wales, some 17 years ago, I found the lodes similar in size to those of America, but not so the timber. In Frongoch Mine, in Cardiganshire; the width of the lode was 36 ft. I remember being underground in that mine with one of the first miners and mining engineers of the present day. We took the measure for stull pieces, for supporting the walls of the lode; but after finding the length of the timber that would be required (33 ft.), he came to the conclusion that nothing but cast-iron beams could support the weight that would becausarily have to be thrown on them.

Ten years ago I was engaged to work the Goginan Mine, the width of thi

is and in the 18 ft. tunnels, including sinking shafts, driving levels, and sinking winzes, be cost is 42s.

The material difference in the cost of working large lodes by tunnels of (say) 60 ft. gh, and 30 or less feet high, is occasioned by the number of drifts required, compared fit the cost of filling. &c., as used in general. The cost of the extra driving in the wich Mine, to which I now particularly allude, is 400.c on 10 fathoms; while to fill an ear of 10 fms. high by 5 fms. wide, being the transverse section of the lode for a length 40 fms., would cost in round numbers 1000.—leaving a balance in favour of open maelling, without timber, of 600.c; but to timber such a width of lode would cost for fms. another 1000. I am aware that walled arches may be resorted to; but this e-supposes an arch of ground left of the lode for them to rest upon, and assimilates the stem so much to the one I advocate, that I consider it unnecessary to dwell upon the stem so much to the one I advocate, that I consider it unnecessary to dwell upon the stem so much to the one I advocate, that I consider it unnecessary to dwell upon the stem so much to the one of the contains very little water; and the shafts are alt 15 fms. without the application of pitwork; the drifts for taking away the ore are also fms. without the application of pitwork; the drifts for taking away the ore are label from winzes, and do not at all interfere with the sinking of the shafts. The mine stands supported by arches of ground, at heights varying from 18 to 36 ft.; the ground in the sides, or walls, of the lode is free and approachable at all times then difficulty, and any ore left can be easily obtained, a matter of some importance mere the width of the lode is not surely ascertained. The arches of ore can possibly be left the rubbish. It will only add, that I am wedded to no particular system, but have along worked common-sized lodes with 10 or 15 fm. levels; and without prejudice, I strove apply the most economical plan of working to every width of tw

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

COURT GRANGE.—The shaft at Pen-y-Cyfn looks well, also the shaft at Letynhien; the lode in each of the shafts is worth at least 10 L per fathom. The termer shaft is about 200 fms. east of Old Pen-y-Cyfn, and in entirely new or ntried ground. The Lettynhien shaft is a mile further eastward, and upon nother lode. Large shodes of lead ore, weighing 1 cwts. in a stone, have been and during the week, in opening ground for a new 44-ft, wheel, about 220 fms.

KINGSETT AND REPERGENCE.

found during the week, in opening ground for a new 44-ft. wheel, about 220 fms. north of Pen-y-Cyfm.

Kingsett and Bedford Mine, I beg to say, that I was highly gratified with what I saw there on Saturday last. I believe you are likely to have a good, a very good mine here, if it be carried out with spirit and economy. The stuff I saw at the surface was not only promasing, but it contained some good work for lead; and, if you can raise much of this, you may be said to have a good mine at this time; but that you will require some little time and money to bring it into order must, I think, be anticipated by every one.

Wheal Russell.—I hear from some of our best agents, who have seen the lodes, that they consider them of great promise, and such as are likely to make great quantities of ore. The operations are confined to 15 fms. deep, or thereabouts, the lodes are large, composed on the backs of fine gossan, fluor-spar, and other indications, deemed of the most favourable character. And on the north lode, in the 15 fm. level, they have seen what looks like the back of a course of ore. On the south lode, at about 10 or 12 fms. deep, hey have a good lode, from which they are throwing up some very good work. The ground is good, and they have passing through the sett (in the midst of the workings) the Wheals Maria and Josiah cross courses, if any importance may be attached to their presence. On looking at Symons's Map of the Tavistock District, and carry on these cross-courses to Wheal Russell, the point of junction of the three will be just where they are now working—that is, about 150 fms. below the lode. I believe that Wheal Russell will disappoint most who have seen her, if she does not make a good mine.

[From the Phymowth Journal.]

Erom the Phynowih Journal.]

Hawkmons.—The lode in the bottom level, driving west, is much improved; there is now a good course of ore in the end; there is also a good lode in the bottom of the engine-shaft sinking below this level. A pair of men are atoping the backs of the level east.

Heneuron Bown.—There is a very large fields in the bottom level, composed of gossan, containing rich stones of grey copper ore of very high produce; there is very little doubt that under the gossan large deposits of copper ore will be found.

WHEAL CALTOCK.—The lode in the new sett east is increasing in size; it is now full 4 ft. wide, composed of black and yellow ore, malicable copper, fluor-spar, and quartz, a fine looking lode for the depth (13 fins. from surface). The lode west in the stopes is looking very well, the crey part of the lode being 2 ft. wide. The north underlayer cut in the lobby of the wheel pit is a very large lode; it has been cut on the top of the hill in the castern part of the sett, and is composed of a very rich gossan. This will fall into the main lode 40 fathous deep.

GREAT DEVON COSSAGA.—In the bottom level is still driving in gossan, containing grey and yellow copper ere, and white iron; a m m le of the gossan; considered to contain grey rer, has been assayed, and produced it per cant. for opper. The whole of the gossan is considered rich for copper.

BIGHT TOR AND VITURES MINE.—The lode in Dunstan's shaft has improved since the moeting; the water is very scarce, we are obliged to throw off all our stamps from the gossan is considered rich for copper.

BIGHT OR AND VITURES MINE.—The lode in Dunstan's shaft has improved since the moeting; the water is very scarce, we are obliged to throw off all our stamps from the moeting; the water be very being required for raising the water from the engine-shaft. This will not again be the case after the adit level is charmed. The other parts of the mine grew whom the change.

2

The stopes are looking very well; the lode

where has been worth full 200, per fathom.

WHEAL PROSPECT.—This little concern bids fair to vie with its larger neighbours in importance; four lodes, varying in size from 18 inches to 4 feet, having been discovered within the limits, and the stopes in an old adit have paid the cost of the undertaking for some time past. The main lode will be cut 20 fms. from surface within aix weeks.

TANETOCK CONSOLS (late Wheal Ash) —There is a considerable change in the appearance of the lode as we approach the great gosson, seen in the shode pit 10 fathoms to the east of our present end.

WHEAL FRANCO.—There has been a considerable improvement in the eastern part of the mine during the week, but enough has not been seen to enable us to give detail. The standard is greatly against us.

### THE COST-BOOK SYSTEM-TRANSFER OF SHARES.

In some remarks which we made in the Mining Journal of the 7th inst. arising out of the trial of the cause Toll v. Lee, on the subject of transfer of shares under the Cost-book System (reported in the Journal of the 30th June), we showed that the mining public had now some basis to act upon, and that shares may be safely transferred without any stamp or other duty. As the subject is of very considerable importance, we give at length the following forms of notices and deeds of transfer, which have been lately drawn up under legal guidance, and may be safely acted upon as correct: as correct:

To the purser of — Mining Company.

To the purser of — Mining Company.

— of — do hereby give you nolice, that I have sold to — of or in the mine,
ealled — mine, situate in the parish of
— in the county of — with the
like parts, or shares, of and in all engines,
tools, tackle, materials, ores, halvans,
moneys in the purser's, treasurer's, and
banker's hands, and all other the appurte
ances to the said mine, or adventure, belonging, together with all and singular the
dividends to be henceforth declared and payable upon or in respect of the said parts, or
shares, and all interest, proft, right, pririleges, and advantages whatsoever incident
hereto, or to be derived therefrom, and all
my estate, right, title, and interest therein.
And also take notice, that I, — do
hereby accept and take the said shares upon
the "Cost-book "principle, and subject to
the rules, resolutions, sinpulations, and conditions mentioned and contained in the Costbook of the said mine.

As winess our hands the — day of —

Witness to the signature of the above s to the signature of the above

Know all men by these presents, that I

Know all men by these presents, that I, of fine of five valuable consideration paid to me by five of the consideration paid to me by five of the consideration that the said five in the parish of and in all that mine, or adventure, called mine, situate in the parish of fine of shares, of and in all engines, tools, tackle, materials, ores, halvans, moneys in the purseer's, treasurer's, and banker's hands, and all other appurtenances to the said mine, or adventure, belonging, together with all and singular the dividends to be henceforth declared and payable upon, or in respect of the said parts, or shares, and all interest, profit, right, privileges, and advantages whatsoever incident thereto, or to be derived therefrom, and all my estate, right, title, and interest therein.

To hold unto the said signs, subject to the same rules, orders, and restrictions, and on the same conditions as I held the same nimediately before the excention hereof.

And I the said developed the conditions.

As witness our hands, the day of the abovenamed,

Witness to the signature of the abovenamed,

Witness to the signature of the above-

TESTIMONIAL TO ME. FLETCHER BY THE COAL PROPRIETORS.—The South Lancashire coal proprietors, last week, gave a sumptuous dinner at the Albion Hotel, Manchester, to John Fletcher, Esq., of the Hollins, near Bolton, chairman of their association—JONAH HARROP, Esq., of Bardsley House, in the chair.
—In the course of the evening the worthy chairman proposed the health of Mr. Fletcher, and detailed, at considerable length, the valuable services rendered to the coal trade by that gentleman during the last five years, and more especially during the Parliamentary sessions of 1846 and 1847, when, in contending successfully with nearly all the principal railways in the kingdom for a reduced and equalised rate of tonnage on the transit of coal on railways and canals, Mr. Fletcher, at the earnest request of a numerous body of coal proprietors, devoted 115 days (without reinuneration) in London to the attainment of this object. At the conclusion of an able and interesting speech, the chairman, in the name of the South Lancashire coal proprietors, presented Mr. Fletcher with an elegant silver tea kettle and stand, on which was a suitable inscription, and a pocket-book containing the sum of 500l. Mr. Fletcher acknowledged this very handsome compliment, in a speech replete with good taste and much feeling. At a later period of the evening, the chairman proposed the health of Mr. Peet, the secretary of the Coal Proprietors' Association, in very complimentary terms, and expressed great pleasure in presenting to him, in their name, a splendid silver cup and cover, silver tea caddy, and ormolu timepiece, altogether of the value of 65l., in token of their approbation of his conduct as their secretary. Mr. Fletcher, Mr. Lees, and Mr. Johnson, also bore testimony to the importance of the services of Mr. Peet, whose observations, in responding to the toast, and acknowledging the substantial compliment the paid to him, were loudly cheered.

The Hoso Trade of the United States—A friend writes from his iron-works in States.

also bore testimony to the importance of the services of Mr. Peet, whose observations, in responding to the toast, and acknowledging the substantial compliment then paid to him, were loudly cheered.

The Iron Trade of the United States.—A friend writes from his ironworks in Pennsylvania as follows:—"The late changes in the iron basiness in England, I fear, will stop all our establishments. Our railroad companies are now able to contract for the bar at \$42 50 c. per ton, at which price it cannot be manufactured in this country; and, although the quality of the American bar is so much superior, yet they will all buy the English iron, unless farmished at the same price. This condition of things arises from the want of a continental demand; and hence their surplus stock is sent to our market, and sold at any price that it will bring. We have our rolling mill in operation, and everything works his e charm, but we shall not continue long at work if English prices do not advance. We cannot reduce the labour lower than it is now, and no good American ought to desire it. I shall write you, ere long, more fully on the subject. We manufacture now so near to the English prices that a slight modification of the tariff would give us all that we desire."—New York Courier.—A correspondent of the Burningham Journal (New York, June 26) writes: "A contract for 5000 tons of rails has been made by the Erie Railroad Company, with the eminent house of William Crawshay, the cost here, all charges and duty paid, not to exceed \$42 dc. per ton. This is lower than any contract has yet been made for cash. The payment for this amount of iron being made in the second mortgage bonds at par, has appreciated these bonds in the market. Notice of the completion of another contract for 5000 tons more on the same terms is expected by the next steamer. The company are now beyond financial want, and can accomplish their gigantic undertaking with the means at their disposal, and proposals have lately been received from strong parties offering to make

and the men, the agents and the employers, are a worthy example.— W. Briton ROYAL THAMES STEAM NAVIGATION COMPANY.—In the Vice-Chancellor's Court, yesterday, a petition was presented for winding up the affairs of this company, which was established in 1846, "to provide suitable accommodation for the public in carrying passengers and goods, by means of improved steamboats, to and from some convenient place or places near London-bridge, to and from Hampton Court, in the county of Middleesex, or to or from such other place or places, stations or piers, between London-bridge and Hampton Court, as the directors for the time being of the said company from time to time consider advantageous; and also for providing and letting vessels to hire for occasional excursions." The capital was 95,000L, raised by 2500 shares of 10L sech. Two calls of 2L per share had been made. The company, it was stated, had caused to carry on business, and had no office; but there were still outstanding debts. The present petitioner (Mr. G. F. Sievers) was one of the

lwo cause of z. per share had been made. The company, it was stated, had ceased to carry on business, and had no office; but there were still outstanding debta. The present petitioner 'Mr. G. F. Sievera' was one of the managing directors, and as such had been sued by a creditor of the company. Mr. J. H. Paluer, in support of the petition, mentioned that the requisitions of the Winding-up Act had been complied with; but he submitted to the court whether the service of the petition had been properly made upon Mr. Osmond Johnson, one of the directors. The suffdarit of service stated that the deponent served the petition "by delivering to, and leaving a copy of the said petition and order with, one George Cottie, in the mill and premises of the said Osmond Johnson, at Great Braxted." The Winding-up Act did not require the service to be personal, but allowed it to be made by means of the Post-office. The Vice-Chancellor said, that he did not see any difficulty as to the service, and he would make the order which was prayed.

DESTRUCTION OF A RAILWAY BRIDGE BY FIRE.—Much excitement was caused in Boston on Sunday morning last, in consequence of intelligence being conveyed by Mr. Critchlow, clerk in charge at Spalding, that one of the rail-way bridges on the Great Northern Railway was on fire. In a short space of time, an immense concourse of people had assembled; and notwithstanding every exertion was made to arrest the progress of the fismes, the construction of the bridge was of time, an immense concourse of people had assembled; and notwithstanding every exertion was made to arrest the progress of the fismes, the construction of the bridge was of time. In a short space of time, an immense concourse of people had assembled; and notwithstanding every exertion was made to arrest the progress of the fismes, the construction of the bridge was of so inflammable a nature, that in an incredibly brief period it was entirely demolished. It is generally known as Peakirk-bridge, is situated about two miles from that place, and

BICKFORD'S PATENT SAFETY FUSE,—The Patente of the ORIGINAL, and only real, SAFETY FUSE, beg to inform Merchan of the ORIGINAL, and only real, SAFETY FUSE, beg to inform Merchants Mine Agents, Railway Contractors, and all porsons concerned in Blasting Operations, that, for the purpose of protecting the public in the use of a genuine article, the PATENT SAFETY FUSE has seen a thread terought into its centre, which being patent right, in-fallibly distinguishes it from all imitations, and onsures the continuity of the gunpowder. The Safety Fuse is now protected by a Second Patent, and manufactured by greatly inproved machinery.

BICKFORD, SMITH, & DAVEY, Camborne, Cornwall,

### Bew Patents.

SPECIFICATIONS ENROLLED DURING THE PAST WEEK.

SPECIFICATIONS ENROLLED DURING THE PAST WEEK.

Specification of patent granted to George Williams, of Tipton, Stafford, forge manager, for a certain improvement or certain improvements in preparing puddling furnaces used in the manufacture of iron. It has heretofore been the practice to form the lining of puddling furnaces with scoria dust and siag.,—a practice which causes considerable waste of iron. The patentee forms these substances into bricks, with which bricks he bullds the interior of the furnace, using a paste of the same materials for mortar.

Claim.—The making of bricks or plates of scoria and slag, for lining the interior of puddling furnaces.

puddling furnaces.

Specification of patent granted to Mr. Richard Dugdale, Brompton, Middlesex, engineer, for improvements in hardening articles composed of iron. The article to be steeled is placed in an iron case, and is surrounded with the carbonizing powder, which is compounded of 100 lbs. of charcoal, i b. borax, i b. sal ammonia, and i b. sulphur. The case and its contents are exposed to from red to white heat; for a space of time, varying from 4 to 24 hours, according to the depth to which the article is desired to be carbonized. When a portion of the article is not required to be steeled, it is prevented from coming into contact with the carbonizing powder by being covered with clay or sand.

Claims.—1. The use of the ingredients, or their equivalents, compounded as described, and 2. Their application, as described, so as together to produce an improved process and sconomical means of hardening or carbonizing iron, or the surfaces of iron, to any depth, whether in the state of rough iron bars or of manufactured articles.

Specification of patent granted to Jeane Baptiste Francois Mazeline (ainé), of Havre for improvements in steam engines, and in the machinery for propelling vessels. The "improvements in steam engines" consist in the employment of a silde valve, the cross section of which is the frustrum of a cone. The steam passages are upon the two sides, so that the valve is not affected by the pressure of the steam, and is, therefore, moved with very "little power." The improvements in propelling consist in the arrangement of two horizontal cylinders end to end, the piston rods of both cylinders being connected to separate crank shafts, each of which carries a spur wheel; the spur wheel of hoth shafts gearing into one pinion, on the screw propeller shaft. Claims.—1. The slide valve described.—2. The arrangement of cylinders for transmittent the nower to the screw shaft propeller.

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

G. and E. Cottam, of Winsley-street, Oxford-street, engineers, for improvements in machinery for cutting straw, clover, and hay; for grinding, for sawing wood, and in apparatus for ascertaining the power employed in working machines.

E. Leigh, Ashton-under-Lyne, cotton-spinner, for improvements in steam-engines, and also improvements in commanicating ateam or other power for driving machinery.

R. Plant, Holly Hall Colliery, Dudley, Worcester, coalmaster, for improvements in making bar or wrought iron.

T. Walker, Birmingham, store manufacturer, for improvements in boots and shoes, and in the manufacture of parts of boots, shoes, clogs, and goloshes.

J. Usher, gentleman, Edinburgh, for improvements in machinery for tilling land.

A. F. How, of the United States, now residing in Basinghal-street, engineer, for an instrument or instruments for ascretaining the saltness of water in bollers.

J. Holland, gentleman, Larkhall Riue, Clapham, for a new mode of making steel. (Being a communication.)

W. Brown, St. James's, Clerkenwell, machinist, H. Mapple, Child's Hill, Hendon, electric engineer, and W. Williams, the younger, gentleman, for improvements in communicating intelligence by means of electricity, and improvements in electric clocks.

S. C. Lister, Esq., Bradford, York, and G. E. Donisthorpe, Leeds, in the same county, manufacturer, for improvements in preparing, coombing, and spinning wool. (Being a communication.)

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

J. Davies, King's Head-court, Holborn, and C. Maltiey, Wood-street, Gray's Inn-road.
olary self-acting tobacco-pipe machine.
Simcox and Pomberton, Birmingham, hinge and door for letter-boxes.

W. Hart. New-road, Brighton, the Sikh buckle.
Deane Dray, and Deane, King William-street, alarum letter box.
J. Hardeasle, Firwood, near Bolton-le-Moors, calender for finishing muslin and other loods requiring such process.
Beddington and Docker, Birmingham, solar shade for the outside of windows.
Victor D'Anglais, Elin Cottage, Lymington, epicurean oven.
C. Burrel, Thetford, gors machine.
J. Hoather, Bedford-court, Covent-garden, petiticoat.
J. Chubb, St. Paul's-churchyard, railway strong box.
C. Clarke, Birmingham, letter-box plate, applicable also to door-knockers.
C. Barrel, Thetford, corn dressing machine.—Mechanics' Magazine.

ATMOSPHERIC RAILWAYS.—Mr. C. H. Greenhow, the patentee of the geometrical railway, has taken out a patent for some improvements on Clarke and Varley's resilient atmospheric tube. They consist in the mode of hanging the tubes at the joints, and of guiding the piston internally by wheels, and a rod fixed throughout the length of tube on one side the longitudinal opening. He further proposes to obtain a vacuum, by causing water to fall from an airtight vessel to its barometrical level, such vessel being connected by pipes, having suitable valves, with the atmospheric tubes. We must acknowledge our lnability to find any improvement in Mr. Greenhow's additions to Clarke and Varley's system; it appears to us to render it complex, without corresponding advantages; and the proposed means of obtaining a vacuum, reminds us, in principle, of Burnier's barometrical railway system, so much discussed in this Journal in 1846. urnal in 1846.

Journal in 1846.

ABERDEEN RAILWAY.—It appears from a report of the chairman of the London committee of shareholders in this company, that he has lately visited the works, and from the rapid progress made by the contractors during the last month, it was expected that the portion yet remaining unfinished might, if a larger number of hands were employed, and a vigoreas effort made, be entirely completed to the south bank of the Dee, at Aberdeen, by the middle of September next, instead of only to within 12 miles from Aberdeen, as originally contemplated. With a view to effect this object, the directors have given the engineer instructions to press on the works in awery department. It is stated that the late estimated cost of the line is not likely to be exceeded, and that the subject of working the line by contract is at present under the consideration of the directors.

### RAILWAY TRAFFIC RETURNS.

Names of Railways.		igth.	Present ac-	p. share		1849	Rau.mp
Aberdeen	33	16	1,000,547	194 \$	-	e-	-
Belfast and Ballymena	37			198	5*	541	448
Birkenhead, Lancashire,& Chesh	. 19	15		87	54	1112	909
Bolton, Blackburn, & West Yorksh	. 14	-	796,384	7	-	514	239
Bristol and Exeter	754	754	2,660,490	66	-	4486	-
Caledonian	141	141	4,865,135	254 1	3	6008	1140
Chester and Holyhead	84	594	3,358,217	18	4	2154	1045
Dablin and Drogheda		354	774,675	205	-	947	826
Dublin and Kingstown	71	75	395,915		-	1192	1191
Dundee, Perth, & Aberdeen June	474	474	544,554	20	64	1120	1198
East Anglian (Lynn to Ely)		554	1,167,104	2.4	-	714	606
East Lancashire		24	2,628,519	184	5	3694	1086
Eastern Counties and Norfolk			12,027,069		-	16469	116859
Eastern Union				13	1	1679	1367
Edinburgh and Glasgow		52		40 4	16	4014	3924
Edinburgh and Northern		34	2,232,115	110	9	2401	1602
Classes Daides and Age			2,574,330	554	1	3624	2158
Glasgow, Paisley, and Ayr		23	848,328	16	120	1280	1389
Glasgow, Paisley, & Greenock		40	4,265,171	94	61	2243	1000
Gt. Northern & East Lincolnshire	120	11101		234	1	3771	2650
Gt. Southern & Western, Ireland		110	3,172,519	824	65	17458	32562
Great Western	230	2064			Back.		
Kendal and Windermere	104	104	174,600	44	730	246	199
Lancaster and Carlisle	70	70	1,476,102	524	4	2671	
Lancashire and Yorkshire	206	127	9,218,450	81	01	16658	10678
Iverpool, Crosby, & Southport	13	-	84,455	31	-	270	-
London and North Western	435	428	25,077,942	133	7	47046	45602
London and Blackwall	54	4	1,299,675		1-12	1269	1295
London, Brighton, & South Coast	170	1624	6,382,281	374	24	11703	9633
London and South-Western	216	194	7,510,689	36	5	12817	9984
Londonderry and Enniskillen	14	144	171,026	16	-	148	145
Manchester, Sheffield, & Lincolnsh.	1294	944	6,048,679	35	5	3574	-
Midland Company	471	4234	14,042,340	661	541	22463	21169
didland Great Western (Irish)	50	364	725,332	244	41	1204	21022
fonklands	37	-	600,000	-	6	707	-
North British	1094	83	3,649,055	13	44	3160	2111
cottish Central	454	-	1,364,228	22	7	1350	1005
hrewsbury and Choster	48	23	969,618	141	5	1419	637
outh Devon	571	29	1,909,232	12 13	5	1964	1590
outh-Eastern	1654	1654	8,116,914	214	54	10398	9336
aff Vale	40	40	879,110		74	1962	1651
llater	36	36	793,829	454	200	807	830
Vest Cornwall	13	90	480,000		155	286	-
Vhitehaven Junction	12	12	150,879	94	3	949	199
Vintenaven Junction	269	2423	6.827.849	204	7	19604	11516
ork, Newcastle, & Berwick				30	7 1	8570	8351
ork and North Midland	Later Street, a	284	4,983,618	Long Part 1978	200	9010	-
FOR	EIGI	RA	ILWAYS.				
miens and Boulogne	764	68 1	1.462,562	61 1	24 1	1597	1228
leppe	26	-	1,100000	-	-	584	-
outch Rivenish	571	574		-	-	1248	1148
Iontereau and Troves	714	714	S. C. STEELERS	200	_	960	
	211	211	7.142,890	05		13428	9376
orthern of France				450.000		2469	1732
rleans to Bourges (Central)	1074	1074	1,229,848	90		2900	2119
rleans to Tours	72	72	600,000	39	44	7568	5459
aris and Orieans	82	82	9,011,720		-		4584
aris and Rouen	85	85	3,062,916	214	1	6377	
ouen and Havre	59	-	2,272,176	101		2784	1867
trasburgh and Basic (monthly)	86	88	-		-	-	-

\* Per cent.—† Interest.—Total for last week, £229,046, being an increase of £ over last year.

## PATEN?

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ness has been done in Cobre, United Mexican, Copiapo, St. John del Rey, Guadalcanal, and National Brazilian.

The position of the United Mexican Mining Association not being generally so well understood by parties interested as we think it should be, we give, in another column, an epitome of its past history and present prospects.

Dispatches have been received for the Imperial Brazilian, St. John del Rey, and National Brazilian Companies.

The Imperial Brazilian letters are to the 14th May last, but they contain nothing new or important, as regards the underground operations. The gold report from the 3d to the 12th May gives 7 lbs. 11 ozs. from the two mines; the total since the 1st January, 152 lbs. 4 ozs. 15 dwts.

The St. John del Rey advices are to the 8th May. The produce for April amounts to 22,672 oitavas, from 6075 tons of ore, giving a profit of 30501. 17s. for the month. The stamps were capable of performing more work than supplied from present raisings; consequently, to keep the machinery in full operation, recourse had been had to the refuse heap. In another column the reports of the mines are given in detail.

The National Brazilian letters are to the 12th May, and advises a slight improvement at a point to which they are looking with much anxiety. The produce to date is given at mes. 2 6 1 55. A remittance of about 10001, has been received by H. M. S. Adventure.

At the half-yearly meeting of the St. Katharine Dock Company, a dividend

At the half-yearly meeting of the St. Katharine Dock Company, a dividend of 2 per cent. for the half-year, to the 30th June last, tree of income-tax, was of 2 per cent. for the half-year, to the 30th June last, tree of income-tax, was declared. Although the view presented by the raturns are not quite so favourable as might be wished, there is every probability that the ensuing half-year will show an improved result, as already, since the 30th of June, the stocks of goods have improved upwards of 1800 tons.

At the half-yearly meeting of the Union Bank of Australia, a dividend of 6 per cent. per annum was declared, with a further bonus of 5s. on the 32,000 paid-up shares, and in like proportion on the 50s. paid up on 8000 shares.

At the half-yearly meeting of the London and Westminster Bank, a dividend of 6 per cent. per annum was declared, and 27291. 17s. 4d. added to surplus fund.

At the half-yearly meeting of the London Joint Stock Bank, the accounts showed a profit in the half-year of 15,433l. 14s. 1d., and a dividend at the rate 6 per cent. per annum was declared.

Foreign capital in English securities has, it is calculated, been invested to the amount of 22,000,000L, in consequence of the disturbed state of Europe during the last 18 months.

NOVELTY IN RAILWAY TRAVELLING.—The Lancastire and Yorkshire Railway Company, in order to encourage travelling by their line, have determined on charging females and children, during the summer months, only halfprice. It is believed by the directors that the result will be a large addition to the passenger traffic, inasmuch as wives will now compel their husbands to treat themselves and families much more frequently than they did before to excursions by railway.

Ornning Statements.—From attractive transfer and Yorkshire Railway.

Oanhus by failway.

Oanhus Statustics.—From returns just made by the Commissioners of Inland Revenue it appears that the total number of omnibuses now plying for bire in the metropolis is 3000, who pay duty, including mileage, averaging 94, per month each, or 324,0004 per annum. The number of conductors and drivers is about 7000, who pay annually 17501. for their licenses.

is about 7000, who pay annually 1750? for their licenses.

TUNNEL BETWEEN ABERDARE AND MERTHYR.—The works upon this large undertaking are progressing very satisfactorily. Mesers. Hunt and Edwards are employing a great number of men, and pushing on the works rapidly. There is also much activity displayed by Messrs. Ritson and Co. upon the portion between Hirwain and Pontwalby.—Merthyr Guardian.

THE COAL TRADE.—We are much pleased to find that the coal trade has considerably revived in this port; and we have no doubt, when the increased facilities which will be afforded by the opening of the Western Valleys line, are available, and larger quantities of coal are promptly brought down, that there will be a flourishing export trade.—Monmouthshire Merlin.

BUTE DOCKS.—Seldom has this noble sheet of water borne upon its bosom a more magnificent display of shipping, and never a larger number of vessels than at the present moment. There are a great many remarkably fine ships there—upwards of twelve being of the largest class—and the place seems full of life and energy. Newport Dock also presents a very fine appearance, being nearly full of vessels, some of them of above 1000 tons.—Merthyr Guardian.

### PRICES OF MINING SHARES

Current Prices of Storks, Shares, & Metals	PRICES OF M	INING SHARES.
contains an application of the contains the contains and the contains are contained in the contains and conta	Shares. Company. Paid. Price.	Shares. Company. Paid. Price.
STOCK EXCHANGE, Salurday morning Eleven o'cleck.	1000 Abergwessin 8 10	198 South Caradon & 250
Rhk Stock, 7 per Cent., 199 200  3 per Cent. Reduced Ann., 93 4 3  Dutch, 24 per Cent., 844	1024 Aifred Consols 8‡ 8‡ 9‡ 10 1000 Antimony&Silver-Lead 5	1100 South Dolcoath 4 5 256 Sth. Friendsh. Wh.Ann 30 28 30
31 per Cent. Ann., 934 4 Chillan, 6 per Cent., 95 4	1024 AshburtonUnited Mines 84 12	256 South Molton 5 14 15 256 South Tolgus 16 . 35 40
Long Annuities, 8\(\frac{1}{4}\) India Stock, 10\(\frac{1}{4}\) per Cent., 25\(\frac{1}{4}\) Russian, 5 per Cent., 10\(\frac{1}{4}\)	1624 Baileswidden 9 18 128 Baineon Consels 42 50 10000 Banwen Iron Co 6 6	256 South Trelawny 284 5
3 per Cent. Consols for Acc. 93‡ 3 Spanish, 5 per Cent, 18‡ Bacheq. Bills, 10001, 1‡d. 48 51 48 pm. Ditto 3 per Cent., 34‡ ‡	1000 Barristown 51 - 14 2	2000 South Wales Mining Co. 2. 1 14 128 South Wheal Basset 204 . 312 30 45
amenod. Bills, 1000s, 13d. 48 81 48 pm.   Ditto 3 per Cent., 343 3	1000 Barristown 54 . 14 2 1000 Bawden 1 . 14 4 4000 Scutord 22 . 34 34	124 South Wh. Frances 160 240 256 South Wh. Josiah
MINES.—There has been a considerable improvement in the mining share		1000 South Wh. Maria 24 14 10000 Southern& Western, Irish 2 4
market this week: several large transactions have come off, while others are	***************************************	280 Spearne Moor 30 40 256 St. Austell Consols 9
in course of negociation. The appearances of an improved market are at presen	120 Brewer 5 5	94 St. Ives Consols 80
very encouraging.  Enquiries have been made for Trelawny, Treviskey and Barrier, Comfort, Eas	10000 British Iron, New, regis. 12 8 	128 St. Michael Penkivel . 5 . 104 999 St. Minver Consols 1 . 6
and South Tamar; in the two latter a great many shares have changed hands	128 Budnick Consols 524 10	1000 Stray Park 43 174
during the last two days. Several shares in South Wheal Basset have changed	1000 Camborne Consols 6 6 64	1024 Tavy Consols 6 2 24
hands during the week, and an inquiry still exists.	20000 Cameron's Steam Coal 7 1 256 Caradon Copper Mine 94 1 256 Caradon Mines 224 10	1024 Tavy Consols 6 2 24 6000 Tineroft 7 104 114 1000 Tin Vale 23
The directors of Devon Great Consols, at their weekly board, on Thursday,	256 Caradon Mines 224 10 256 Caradon United 24 5 8	1 38 TOKENDUTY 170 10
declared a dividend of 6l. per share, amounting to 6144l for April and May.  At the West Buller meeting their first dividend was declared, amounting to	256 Caradon Wh. Hooper 21 42	256 Tregordan
10L per 128th share,	2000 Carthau Consols 14 5	2000 Trenance 3
West Seton is represented as having improved. The ends generally have not been looking so well. At present there is a tolerable lode in the flat-rod shaft.		96 Tresavean 10 100 120 Trethellan 5 . 15 16
At North Pool the ends are less productive than they have been, but the lode	128 Comfort	120 Treviskey and Barrier 130 80 288 Treveau
in the shaft is stated to be worth 5 tons per fathom.		200 United Mines 50 150
Shares in the following mines have changed hands during the week:—South Wheal Basset, Trelawny, Trevisky and Barrier, Mary Ann, Bedford United,	1000 Coombe Valley Quarry 31. 42	256 Weilington Mines 25 38 40 128 West Buller 10 290 256 West Caradon 20 125
Wheal Basset, Trelawny, Trevisky and Barrier, Mary Ann, Bedford United, Tamar Consols, Tincroft, East Tamar, Trethellan, Devon and Courtenay, South	1000 Copper Bettom 14 64 212 Crandock Moor 234 5 128 Creeg Braws120 30	256 West Caradon 20 125 512 West Fowey Consols 40 12
Tamar, Kingsett and Bedford, Wheal Henry, Herodsfoot, Trehane, &c., &c. The half-yearly meeting of the Cobre Mining Company was held on Tues-	500 Cubert Mine 124	256 West Providence, 9 174 20
day, the 17th, when a dividend of 81, per share was declared, from the balance	1000 Cwm Erfin 3 2‡ 2‡ 300 D.Prior& Buckfastleigh —	256 West Providence, 917 20 200 West Seton 40 160 — West of Scotland IronCo. 240 90
of 23,024. 18a. 8d. remaining in hand, after payment of the 1l. per share dividend in February last. The returns from the mines for 1848 exceeded the	7100 Derwent 84 5 845 Devon&CourtenayCon. 74 2 3	120 West Trethellan 5 16 256 West United Hills 4‡
previous year by 5168 tons; and, from present prospects, it is more than pro-	1024 Devon Great Consols 1 190 200	512 West Wheal Frances , 11. 2 256 West Wh. Friendship. 9 . 8
previous year by 5168 tons; and, from present prospects, it is more than probable the excess will be greater for 1849. The directors intimated that a re-	182 Dolcoath 30 15	a725 West Wheat devel 19 1 1
serve of ore had been authorised, in consequence of the continued depression of the standard for copper ore; but they anticipated an improved market on	2560 Drake Walls 54 3 4 10000 Durham County Coal 45 9	256 West Wheal Tolgus 80 10 256 West Wheal Treasury 194, 5 7
of the standard for copper ore; but they anticipated an improved market on the continent assuming a more settled position. They also informed the pro-	3000 Dymgwm 10 124	1024 Whiddon Alines 4‡ 2 5200 Wicklow Copper 5 8‡ ‡
prietors that the misunderstanding which had existed for some years with the Santiago Company would, probably, terminate in an amicable arrangement.	512 East Aivenney 54 6 2500 East Birch Tor 3 3	107 Wheal Adams 79 30
The balance-sheet of the Santiago Mining Company, presented at the half-	112 East Caradon 47 47 2048 East Crowndale 64 4	1000 Wheal Agar
yearly meeting held last week, which we omitted in our last Number, will be found in the present—showing the amount of cash in hand 20,2151. 6s. 3d.,	512 East Combe Silver-Lead 64 64 128 East Pool 15 45	240 Wheal Anderton 251 22 24 126 Wheal Ann 504
with the estimated amount of ore at Swansea, 22101. 10s. 1d.	9000 East Tamar Consols \$ \$ 2 94 East Wheal Crofty125 65 70	512 Wheal Anna Maria 7 8 1024 Wheal Ash 41 8
The Bwich Consols shareholders, residing in London, met at the offices on Wednesday last, which was attended by Captain Mutthew Francis, from the	1024 East Wheal Fortune 2 3 128 East Wheal Rose 50 600	120 Wheat Bat 52 15
mines, who entered into a detailed statement of the proceedings at the mine, and also exhibited a financial account of cost and returns for the last eleven	- East of Scotland Iron Co. 5 14	256 Wheal Benny 14 2 1024 Wheal Bray 10 10 256 Wheal Blencowe 21 12
months, by which we perceive that a profit of 1697l. 2s. 4d. has been realised, and	123 East Wheal Seton 14 10	232 Wheal Calstock 9 20 25
1108L 10s. paid in dues—making a total surplus over cost of 2805L 12s. 4d.  From our many correspondents in the Principality, we learn that the Welsh	248 Exmoor Wh. Eliza 6 6 494 Fowey Consols 40 45	268 Wheal Courtenay 124 — 256 Wheal Fortescue 15 —
lead mines are, generally, looking remarkably well. And although time and	1024 Freidd Llwydd Mines 11 34	388 Wheai Franco 27 12 15 128 Wheai Harriet 45 —
capital are universally esteemed the chief machinery for mining purposes, we find that several mines, possessing the most gratifying prospects, are fearfully	4000 Gen.Mining Co.for Irel. 14 14	100 Wheal Henry 15
cramped for the want of a more efficient exchequer to bring them into a posi-	128 GOONVICH 4 2	112 Wheal Margaret 79 225
tion of paying dividends. While the absence of an effectual and judicious management (operative, as well as financial) in others are evidently retarding	256 Grambler & St. Aubyn 80 8 9 100 Great Cousols 1000 120	512 Wheal Mary Ann 5 25 26 208 Wheal Mary Consols 601 8
profits that could be realised much earlier.	512 Gt.Wh.Rough Tor Con. 181. 18 20 2000 Growa Slate Company . 5 5	360 Wheal Oak 6 5 5 6
The long drought has, it appears, considerably affected the immediate re- turns of several of the mines in Cardiganshire, inasmuch that most of them are	256 Gwinear Consols 7 — 6000 Heignston Down Con 14 4 1	210 Wheat trospect 4 7 120 Wheat Reeth 41 150
being worked by water power, and the mountain streams failing in their usual supply, the deficiency is now much felt.	asc Hawadsfoot 97 18	128 Wheal Rose 60 3
Lishuma Clorinan Court Grange Rudoh Console Cum Erlin Liuvingalace	10000 Hibernian	198 Wheal Seton214 250 180 Wheal Sisters 35\$ 5
Pendian Gwyn, and Cwmystwith, are represented to be in a productive posi- tion, with the most encouraging prospects. Esgair Lli and Abergwessin are represented as having improved during the past week. At Court Grange an	1000 Holmbush 22 . 10 15	494 Wheat Sophia 44 5 128 Wheat Spearne 10 68 70
represented as having improved during the past week. At Court Grange an	1536 Holne Park	128 Wheal Spearne 10 68 70 128 Wheal St. Ann 30 35
interesting discovery has been made in cutting a new wheel-pit, exclusive of improvements in the two shafts.	2048 Lamberooe Wh. Maria 8 24	550 Wheal Trescoll 9 10 15 260 Wheal Trelawny 74674 70
Milwr. Halkin, Jamaica, and other mines in the north, continue to hold out	252 Lanarth Consols 4	256 Wh.Tremaine(St.Ervan) 94 24 1024 Wheal Tremayne 94 3 4
he most gratifying appearances; whilst the sale of upwards of 460 tons of lead	160 Levant	1024 Wheal Tremayne 91 3 4 92 Wheal Tryphena 140 100 1000 Wheal Vincent 21 7
the most gratifying appearances; whilst the sale of upwards of 460 tons of lead overs at Holywell, on the 12th inst., show the importance of such mines as Fronfownog, Hendre, Talargoch, Mass-y-salis, &c.	1000 Llwynmalees 8 61 10 3600 Llynvi Iron 50 50	256 Wheal Vlow (Perranz.) 4 4
At the Great Polgooth meeting, the accounts showed a return for two months, will and May, of 5207L 1s. 8d., which enabled the directors to declare a di-	253 Lostwithiel Consols 23 10	184 Wheal Vyvyan 60 250 Wheal Williams 28‡ 8
ridend of 4L per share, leaving a balance to credit of 271L 18s. 10d.	5000 Marke Valley 10 # 1 5000 Mendip Hills 3 1‡	FOREIGN MINES.
In our remarks of the Llwynmalees accounts, in the City Article of last week.	128 Metha	5600 Aiten Mining Company 144 21 15000 Asturian Mining Co 15 . 31 1
we stated the monthly cost was 8541. 6s. 4d., neglecting to mention the period wer which these accounts extended—viz.: nine months—which would give	1980 Nent-veria	20000 Australian 3 44 4
be average monthly cost at about 95L	100 North Pool 46 . 449 6	10000 Anglo-Mexican Co100
In foreign mines the transactions appear to have been limited. Some busi-	140 North Roskeny 54., 140 1	6000 Barossa Range 1 1 1 2 3000 Bolanos 150 1
ness has been done in Cobre, United Mexican, Copispo, St. John del Rey,	262 North Wh. Leisure 14 2 256 North Wheal Basset 10 10 12	2000 Ditto Scrip if 14 10000 Brazilian Imperial 23 3
Justalcanal, and National Brazilian.  The position of the United Mexican Mining Association not being generally	128 Par Consols 55# 650	12000 Cobre Copper Co 40 26
well understood by parties interested as we think it should be, we give, in	8000 Pennant & Craigwen. 2 1 1024 Penzance Consols 18s 3d 3	10000 Copiapo Mining Co 14 31 4 20000 General Mining Ass'n. 20 14
nother column, an epitome of its past history and present prospects.  Dispatches have been received for the Imperial Brazilian, St. John del Rey,	512 Plymouth Wh. Yeoland 64 6 200 Polsaith Consols 54 44	4000 Guadalcanal 5 71 8
nd National Brazilian Companies.	2500 Rhoswiddol&Bacheidon 10 10	5051 Mexican Company 594 — 2000 Mexican & SouthAmer. 8 1 14
The Imperial Brazilian letters are to the 14th May last, but they contain othing new or important, as regards the underground operations. The gold	10000 Rhymney Iron	5000 National Brazilian 30 31 1 104000 N. Brit. Australasian 1 1
othing new or important, as regards the underground operations. The gold sport from the 3d to the 12th May gives 7 lbs. 11 ozs. from the two mines;	1000 Rosewall Hill 1 5 256 Rosewarva Mines — 12	7000 Royal Santiago 10 5
to total since the 1st January, 152 lbs. 4 ozs. 15 dwts.  The St. John del Rey advices are to the 8th May. The produce for April	2048 Runnaford Coombe Tin \$ 12 9000 South Tamar \$ \$	7000 Royal Santiago 10 5\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
mounts to 22,672 oitavas, from 6075 tons of ore, giving a profit of 3050L 17s.	We should feel greatly obliged by agen	ts, or others interested, furnishing us with

\* We should feel greatly obliged by agents, or others interested, furnishing us with such corrections for our Share List as we may not have received through our usual channels of information—our object being, to present as accurate a list of prices as can be obtained—to procure which, we solicit the aid of correspondents in general.

### LATEST CURRENT PRICES OF METALS.

LONDON, J	ULY 20, 1849.
ENGLISH IBON. 6   Per ton.	Tile
Sheets, sheathing, & bolts, p. lb. 0 0 9 Tough cakeper ton 79 10 0	QUICKSHLVER 0 ,per lb. 0 3 2

MANCHESTER, JULY 17.—Although the amount of business transacted in this market sines our last report has not been very considerable, a marked improvement in the feeling of the trade was perceptible to-day: there was no longer any indisposition to do business, and the sellers' limits of last week could very readily be obtained. This change is, no doubt, in some degree to be ascribed to the rumoured settlement of the Danish question; and, though some uncertainty still attaches to the information received on this subject, we are inclined to think that, in the main, it will prove to be substantially correct. Apart from this, however, and the other disturbing circumstances arising out of continental politics, there have been other causes for the stagnation in the fron market.

In the early part of the year, a very general and extensive business was done, and especially in Scotch pig iron. At that time both the dealers and consumers stocked thermselves rather heavily, and hence arose a pause which was not so much caused as prolonged by the political disturbances of Europe. Now, however, we believe that the stocks, both is the workshop and the store, have become considerably reduced, and this circumstance, combined with the prospect of an early removal of the Danish blockarle, has tended to destroy the expectation, somewhat generally induged by the trade here, that Scotch pig iron would drop to 40s. per ton, and has induced a wish on the part of both dealers and consumers to meet the sellers in price. We have not hesistated to express the opinion, that prices would not recode to any considerable extent; that the low value of money, arising from its great abundance, the improvement in the general trade of the country, and particularly in the manufacturing districts, as well as the flavourable appearance of the crops, and the prospects of a rich and abundaisc harvest, must prevent any serious decline in the value of a staple product like iron. That our expectations in this respect have been realised, we think is now apparent, and while we neither anticipate nor desire any violent re-action towards high rates, we do look forward to a steady and permanent improvement, to which, in our opinion, the stocks that have accumulated during the late lull will contribute; for, while their accumulation should operate to prevent extravagant expectations on the part of the makers, they will also afford facilities for the execution of large orders whether for export or heavy works at home, and thus tend to keep the market in a firm and healthy condition. In consequence of the non-arrival of the Scotch malis, we are unable to give the latest quotations for free on board at Glasgow. Here for Scotch pig iron, good merchantable brands, mixed numbers, 50s. 6d. to 52s. 6d. per ton is the price.—Examiner and

mixed Nos.

CURRENT PRICE OF GOLD AND SILVER.

Foreign gold, in bars ... per oz. £2 17 9 New dollars ...... per oz. £0 4 10

Portugal pieces... 0 0 0 0 Silver in bars (standard) ..... 0 4 114

EXPORTATION OF THE PRECIOUS METALS.—The following are the official returns of the exports of gold and silver from the port of London for the last week:—Silver coin to Rotterdam, 4000 ounces; ditto to Dunkirk, 5000; ditto to Belgium, 120,000; ditto to Belgium, 120,000; ditto to Belgium, 12,500—Gold coin to Boulogne, 100; ditto to Hamburgh, 364.

EXPORTS OF METALS TO ALL INDIA FROM LONDON AND LIVERPOOL

FOR THE PIL	IST SIX MONTHS OF 1848	AND 1849.	
Metals.		In. in 1849.	
Spelter			
Copper			
Iron, British			
Ditto, foreign	165 666	501	
Tin-plates	Boxes 2126 5697	3571	
Lend			
Steel			
Quicksilver	Bottles 15 25	10	

London, Brighton, and South Coast Railway.—At the half-yearly meeting of this company, to be held on Wednesday next, a dividend of 11. 9s. per cent. for the half-year will be recommended by the directors to be declared by the shareholders. A proposition will also be made to increase the allowance of the chairman from 8001. to 15001. per annum.

STEAM-BOAT TRAVELLING ON THE THAMES.—According to returns made by individuals stationed for that specific purpose, at the different steam-boat piers, between Chelsea and London-bridge, it was ascertained that 324,000 per-sons landed and embarked from the steam-vessels plying between those places during Sunday last.

Plymouth Works, Merthyr.—Two ainkers, working at these works, were killed by a fall of rubbish on Wednesday.

Great Rough Tor.—J. Brewer, while making a stage in the shaft, allphed off, and fell 15 fms. He imag by his clothes on a spike 10 fms. from the bottom; but from the shock he died in shour four hours.

Accident from Breaking of a Rope.—At Brynchoch Pit, near Flint, worked by Messrs. Eytons, at six o'clock on the evening of Wednesday last, the 18th inst., as seven men and boys were ascending this pit, in the absence of the engineman, the engine was being worked by one of the banksmen, who drew the cage against the pulley, when the rope broke, and the whole of the poor fellows were precipitated a depth of 190 yards. Six were taken out quite dead, and most dreadfully mutilated, and the other died before he could be carried home.

### LEAD ORES.

L	ANFAIR	MINES	OBE-	-Sou	t a	t ti	re	M	in	8,	on	11	e	16	in	QJ.	J	utz	1-	-41	0 8	ons,	0)	21	cut	8.
	Newton																									
	Walker,	Parker	, and	Co																		2	3	11	0	
	Mather																								0	
	Thomas																								6	
	Tamar S																								6	
	J. T. Tr	effry				• •			0.0	0.0												2	4	11	6	
	Robert 1																								0	
	Sims, W																							2	6	
	Penpoll	Smeltin	ig Coi	mpan	y	••	••	••	••										••			2	3	8	0	

### Sold at the Mine.

Mines.					f				Purchasers.
									Penpoll Company.
									Tamar Company.
ditto		 	 	. 14	*****	15	0	6	 ditto
Lisburne M	ines -	 	 *****	55	*****	9	7	0	 Newton, Keates, & Co.
ditto									
Cargoll		 	 	21		13	18	6	 Penpoll Co. & Michell.
ditto	***	 	 *****	. 7		10	6	6	 Tamar Smelting Co.
Oxnam's Or	0	 	 	14	*****	15	0	6	 ditto
					ld in Lo				
Tamar Mine	5	 	 	109		£20	18	6	 Tamar Company,
Holmbush .		 	 	96		16	9	n	Sime & Co

### BLACK TIN.

Mines. Tons c. qrs, lbs. Price per ton. Total, burton United ... 3 6 3 20 ... £40 0 0 ... £133 17 1 dipto ... 0 8 0 22 ... 32 0 0 ... 13 2 4 Total—3 tons 15 cwts. 0 qr. 14 lbs.—Money, £146 19s. 5d.

### COPPER ORES.

	ons.		- 4	Prio	e.	Mines. Tons. Price.
Devon Gt. Cons. 3	95	••••	£6	3	6	West Caradon 56 £3 8 (
ditto	84		6	3	0	Fowey Consols 6 14 6
ditto	78	** **	5	3	0	ditto 79 5 12 (
ditto	76		7	12	0	ditto 72 5 12 0
ditto	74		4	17	0	Wh. Friendship 106 8 9 0
Wh. Fanny	110		6	2	6	ditto 104 7 16 6
ditto	83		3	16	0	Poldice 62 4 0 6
ditto	77		6	16	6	ditto 38 5 3 6
ditto	65		6	5	6	ditto 34 4 19 0
Wh. Maria	90		9	5	0.	Bedford United 115 8 2 6
Wh. Anna Maria	97		6	1	0	Wh. Maiden 34 3 17 (
ditto	75		5	4	0	Charlestown United 34 8 5 0
West Caradon	90		6	8	6	Wh. Jewel 10 3 18 6
ditto	72		11	7	0	ditto 5 5 7 0
ditto	65		6	8	6	Married Physics VI English Lates Committee and

# Devon Gt Cons. Wh. Josiah... Wh. Josiah... Wh. Josiah... Wh. Maria ... 1004 ...£6173 6 6 Bedford United ... 115 ... 934 7 6 Wh. Fanny ... Wh. Anna Maria Wh. Anna Maria Wh. Anna Maria Wh. Charlestown United 34 ... 280 10 0 Fowey Consols ... 232 ... 1390 6 6

COMPANIES BY WHOM THE ORES WERE PURCHASED.

Mines Royal						
Vivian and Sons	. 566	*****	3575	17	11	
Freeman and Co	. 314		1741	5	3	
P. Grenfell and Sons	. 206		967	14	6	
Williams's Crown Copper Company	. 54		347	7	6	
Sims, Willyams, and Co	. 388	*****	2541	18	8	
Williams, Foster, and Co	. 398		3493	0	8	
Schneider and Co	. 119	*****	561	0	0	
Total tons	. 2115		13,662	17	0	

Copper ores for sale on Thursday next, at the Royal Hotel, Truro.—Mines and
—Consols Mines 708—United Stines 643—Treviskey 353—Tresavean 347—Par
298—South Carsdon 357—Trethelian 222—Wheal Comfort 200—Perran, St. Geo
—Wheal Mary Consols 23—South Tolgus 123—Grambles and 8t. Aubyn 77—Whe
69—Treleigh Consols 63—Richards's ore 18—Wheal Tolgus 4.—Total, 3922 tons.
Copper ores for sale on Thursday week, at Tyack's Hotel, Camborne.—Mines a
cels.—East Wheal Crofty 601—North Pool 489—Wheal Seton 445—Tineroft 437
borne Vean 434—South Wheal Basset 350—Condorrow 347—Wheal Mary 323—
Consols 210—Dolcoath 176—East Pool 156—South Wheal Frances 116.—Total, 38

COPPER ORES

At SWANSEA, for sale July 26.—Berehaven 130, ditto 128, ditto 126, ditto 134, ditto 106, ditto 103.—Course 104, ditto 96, ditto 94, ditto 76, ditto 73, ditto 57, ditto 50, ditto 198.—Burra Burra 50, ditto 49, ditto 47, ditto 48, ditto 70, ditto 67, ditto 57, ditto 79, ditto 79, ditto 73,—Kaw-aw 64, ditto 59, ditto 50, ditto 50, ditto 6.—Ballymartagh 40, ditto 33, ditto 24.—Burra Burra 77.—Guscoyne Siage 50.—Holdon Slag 57.—Lacksmore 46, ditto 7.—Vine Slag 18, ditto 7.—Cronebane 2.—Tigrony 2.—Total, 2537 tons.

The number of passengers who passed through the Tunnel in the week ending July 41 was—No. of passengers, 13,589.—Amount of wown, £55 13s. 3d.

### NOTICES TO CORRESPONDENTS.

apon our correspondents, the necessity of invariably furnis nes and addresses—not that their communications should, cod, but as an earnest to us of their good fairli.

Mr. Lake's papers on Pyrogen will be continued in next Journal; when we shall give an engraving and description of a novel suspension bridge, erected on the estate of Earl Howe, at Chester, by Mearz. M'Kean, Perkes, and Co., of Liverpool, and several other matters intended for our present Number.

matters intended for our present Number.

M. S." (Kennington).—See Recipes, in another column.

A Subscriber" (Manchester).—The specifications of all patents for inventions exidered of interest to our readers are regularly published in our Journal. The cop of other specifications, or any information in connection therewith, can be obtained Mesurs. Campin, and Co., at the Patent Office, 210, Strand.

S. H. Thomas (Alten Copper-Works).—Bergmester Lammer's report on the prospects and capabilities of the Modum Cobalt-Works, was published in the advertisement of the sale of those works in our Journal.

G. B." (Brighton).—It is stated that the solicitor's bill of the South-Eastern Railway contained 10,000 folios, which occupied 12 months. In taxation before the master, and amounted is 24',000.

F. S." (Cornhill).—According to Phillipa's Introduction to Mineralogy, there are 28 different species of copper ores; these are again subdivided into several varieties. Agreet many other ores contain copper, which are particularised in time work under the head of the minerals of which it forms a component part.

source Jones (Islington).—The varnish used by the Italians for burnishing their cables (by some suppose to be superior to the French) is thus prepared:—The surface of the wood is saturated with olive oil, to this is applied a solution of gum Arabic, in boiling alcohel.

nets (by some suppose to be superior to the French) is thus prepared:—The surface of the wood is saturated with olive oil, to this is applied a solution of gum Arabic, in beiding alcohed.

"A Pottery Man."—We shall make further inquiries regarding the Indian cobalt. There are large quantities of cobalt in every state of preparation, from the ore to suffre and smalls, laying in stock at the Modum Cobalt Works in Norway, which might be purchased at an easy rate. Probably the firm of Solly, Lister, and Co.. will be able to give some information on the subject.

"An Enquirer" (Dudley).—Till the year 1740, the smelting of iron ore in England was entirely performed with wood charcoal. The ores principally employed were brown and red hematics. Earthy iron ores were also smelicit, but it does not appear that the clay ironstones of the coal basin were then used. At that period there were 39 charcoal blast furnaces, whose annual produce was 17,35 ton of cast-iron. By the year 1788, several attempts had been made to reduce iron ore with coked coal, and there remained only 24 charcoal bast furnaces, while there were 53 coke furnices in activity. The production of iron for that year was, by means of coals 46,000 rons, and by charcoal 13,100 tons—making a total quantity of 61,900 tons.

"J. T. C." (Bow-street).—We have not space for the issertion of our correspondent's letter. We agree with him, that the directors of the Richmond Eailway would suit the convenience and comfort of the working classes, if on Sundays they were to run third-class trains the whole of the day, which we believe is the case on the Greenwich line. Many prefer, during the sultry weather, going in an open carriage to being shut up in a crowded and confined whiche. The extra fare to the working man and in is family, who have calculated their expenses for the day, may sometimes be a serious object. The concession might be made to the public, we apprehend, without serious, if any, diminution in the receipts. Numbers of the poorer classes, who would avait t

"An Enquirer" (The Grove, Southwark).—Blast rurnaces, technically called assign the lead produced from which is generally harder and more sonorous than that from the reverberatory furnaces. See Notice to Dr. Neilson.

Seponolous or Parentz.—To ensure accuracy in the reports of specifications of patentees and the interests of patentees, and this can be accomplished most readily and effectually by the patentee supplying us with the requisite information, as the regulations of the Eurolmont Office place stumbling blocks in the way of correctness, as will be found stated in a comminication from Mr. F. W. Campin (Who reports specifications) in another part of our paper.

3. H. T. (Alten).—Savery made use of the elastic force of steam after the manner proposed by the Marquis of Worcester; he made the pressure of the atmosphere carry the water up the first stage, which the Marquis of Worcester does not appear to have done, although there must have been a vacuum created in his receivers as effectually as in those of Savery, occasioned by the condensation of the seems on the entrance of the cold water. He obtained a patent from William III. "for raising water, and occasioning motion to all sorts of mill work by the finpellent force of fire." In 1698, and for several years thereafter, he appears to have been actively engaged in getting his engine into practice. In 1702 he published a small pamphet called the Macre' Friend, in which he gives an account of the structure of the engine, and the media operandi.

4. Traveller" (Leady).—The railroad from Harburg to Brunswich passes through Hanover—there are branch lines connecting it with the Magdeburg and Berlin line.

Henry Crawford (Edinburgh).—Dr. Murray has published a work on the diamond, in which much useful and scientific information will be found. There are models in the mineralogical collection of the British Museum of several large diamonds, among them those of the Rajah of Mattan, that in the Imperial septer of Russia, the Austrian, the Pitt, and the Nassuc. The lar

Rarver, and the Smityl-whence the territory derives its name (from the two Persian words, pend, five, nar day, water), afford a navigation on lot less than 1560 miles, too gother with such facilities of irrigation as may be turned to account even by the simplest methods. The population of the Furnjub is about 1,400,000; in 1844, the customs and excise duties were 220,000%; the whole verence, 3,260,600%.

E. J. C. (Rond-street).—Catalogues of the sale of the at Amsterdam are not to be obtained in London. Mesrs. Enthoren, of Moorgates, theel, will afford all information to parties whiming to purchase. A brief article on the sale will be found in another column. Dr. Ove Nielsen (Elic Copper Works).—Where the ores are rich, they are introduced into the farmace as "bucked" ores; if of an interior quality, they are ground and ligged, much after the same manner as copper in very rude furnaces, urged by Derbyshire and the north off, and were, therefore, placed on the summits of western discount of the sale of the highest hills. These were replaced by blust hearths. Theoperation of smelting, at prosent, it executed in Derbyshire in reverbratory furnaces. These are interiorly-about 8 ft. long by 6 ft. wide, in the middle. The five, placed at one of the extremities, is separated from the body of the furnace by the figh-bridge, which is 2 ft. thick, leaving only from 14 to 18 in. between the upper short of the secure o

S. M. and Son" (Manufold).—A notice of the approaching sale of Banca tie, at Am-

To the Editor,
Mining Journal Office,
26, Fleet-Street, Losdon.

And Post-office orders made payable to Wm. Salmon Mansell, as acting for the proprietor

### THE MINING JOURNAL

Hailway and Commercial Sasette.

LONDON, JULY 21, 1849.

There is nothing of an absolutely new description in the mining nistory of the week. Both mining produce and mining shares have an aspect of firmness and improvement about them, which must be encouraging and satisfactory to the holders. But there is not, that we are aware of, any decided movement in advance, or any mate-rial alteration in the quotations of this day week. We are glad to rial alteration in the quotations of this day week. We are glad to announce the termination of the Danish and the Italian wars, and aunounce the termination of the Danish and the Italian wars, and the return of those states to the more rational and the more remunerative pursuits of peace and commerce. The former of these unhappy contests—that is, the Danish—has been more injurious to the trading interests of this country than is generally supposed. It has, for its maintenance, placed an extensive line of continental coast under blockade; the Sound, to a great extent, has been closed, and the Baltic rendered inaccessible. In fact, some of the best markets of Germany have been as good as shut to the merchandise and the mining produce of Great Britain. This state of things has just come to an end, and instead of it we are re-entering upon that perfectly free intercourse and communication for trading purposes, of which we have already enjoyed so long a term, and reaped the commercial advantages.

mercial advantages.

We trust, with the enlargement of the area of our markets, w We trust, with the entargement of the area of our markets, we shall, in all our mining districts, experience an improvement in prices and in employment. In railway affairs, the week has certainly presented some features of peculiar novelty. We cannot refer to them at length, and we should be too happy if the facts which have been brought out by an examination into the mismanave been brought out by all examination into the misma-nagement of the Eastern Counties, and some of the north of England lines, could be shown to be of less gravity, or supported by more questionable evidence than, unfortunately, they are. As it is, we cannot but deplore the ruin which has been brought upon indivi-dual character, and the blight which, for the moment, it is to be feared, has fallen on this great national interest.

The holders of shares in the Bolanos Mining Company should make themselves acquainted with the circumstances which have led the directors to propose an addition to the capital, by resolutious to be submitted to a general meeting on the 1st August. They will then see that the property in the mine, or mines, now possessed by the company ought not to be sacrificed without making some effort, and that but a moderate one, to save it from following in the wake of other Mexican concerns of a like nature. We will just briefly glance at the history of this company. It was formed in 1825 for working the old mines of Bolanos. The mines of Veta Grande, in Zacatecas, were afterwards taken, and yielded, in ten years, a net profit of nearly a million and a half sterling, of which the company received half, or upwards of 700,000f. : about 70,000f. of this profit. The holders of shares in the Bolanos Mining Company should

Zacatecas, were afterwards taken, and yielded, in ten years, a net profit of nearly a million and a half sterling, of which the company received half, or upwards of 700,000.; about 70,000. of this profit was divided amongst the shareholders in England, and the remainder, together with the original capital of 300,000. was sunk at Bolanos. The Bolanos Mines were at length abandoned in 1842, and these of Veta Grande, having become poor, were also given up. The company then held the two small mines of San Clemente and San Nicolas. These were profitable for some time; but failing, were also abandoned, together with others which had proved unproductive. Three years ago the company obtained possession of the Cerro del Bote Mines; and these, with a small mine called Celestina, are the only onesthey now hold—so that the Bolanos Mining Company at this moment is so only in name.

The grants, or setts, of the Cerro del Bote are very extensive, and comprise some of the largest known mineral veins in Zacatecas, on the same run as the celebrated mine of Quebradilla, and parallel with the rich bonanzas of Veta Grande. The whole of the veins, or ground, held by the company is virgin or unworked, so that there is ample scope for following out the principle of attacking only new ground. This principle having been acted upon in the present case, it is worthy of remark that the first point opened has produced an amount of returns beyond even the sanguine expectations of the projectors. Everything that has been done—the forming of an establishment, supplying stores, building houses, haciendas, sinking shafts, and erecting steam-engines—has been paid for out of the projectors. Everything that has been done—the forming of the mine in the three years, and the company have supplied a capital of only 5000l.? This, however, was too much for any mine so situated to bear up against.

The pressure of water as the mine became deepened, has been found to

capital or only 5000s. This, nowever, was too intent for any finite so saturated to bear up against.

The pressure of water as the mine became deepened, has been found to require increased efforts; and this, combined with a change in the vein, not unusual in the district, has led to a temporary falling off in the returns. It is a concern, however, which demands and deserves support. Let the shareholders give it that support, and let it not be abandoned as were the mines of Mellado and La Luz, in Guanaxuato, which have since were the mines of Mellado and La Luz, in Guanaxuato, which have since proved two of the richest in Mexico, or the mines of Real del Monte, which have been sold to a Mexican company, just at a time when an outlay of some few thousands of pounds would have put them in a state of permanent profit. Moreover, it must be remembered, that the working of mines in Mexico is now better understood and everything is done more cheaply than 24 years ago. The experience has been dearly bought; but surely that dear-bought experience should not now be thrown away.

The improvement of the sanatory condition of the City of London The improvement of the sanatory condition of the City of London, is a subject in which we have long taken a very lively interest, and in the discussion of which we have from time to time participated. Our views and opinions, generally, have corresponded with those entertained by the majority of the corporation of this great city, and we believe also with the inajority of its inhabitant householders. To us it appears that for a series of years past the corporation has dedicated a marvellous sum of practical skill, and a vast amount of expenditure, to the enlargement and perfecting of the sewage of the titanic hive of which they are the official guardians; and that, besides these elaborate works, just below the site of this queen of cities, they have taken, and are still in course of taking, all practicacities, they have taken, and are still in course of taking, all practicable means to ventilate, cleanse, and purify, the surface and visible parts of their great charge. This is on all hands admitted; but the admission is qualified with this censure—that their purification of the metropolis is accomplished by poisoning the Thames.

Amongst many plans which have been deviated for obvisting such

Thames for these purposes, we are probably doing what Providence designed we should do with so apposite a gift, and which those who laid down the rudimental lines of this imperial homestead so fully contemplated. It is puerile to talk about the descration of the river, when it is daily accomplishing for us, in this particular, the highest and most useful of all social purposes; and it is equally trifling with the noble stream to say that, by our misusage, it is neither so classic as the Eurotus, nor so sacred as the Jordan; it is, stronghout all the seasons, contributing more to the power, comfort, and wealth of this great state, than any score of ancient rivers could contribute to the cities they visited, or the commerce they sustained.

Though with those streams he no resemblance hold, Whose weeds are amber, and whose gravel gold; His nobler but less costly wealth to explore, Seek not his bottom, but survey his shore.

Whose weeds are amber, and whose gravel gold;
His noblet but less coatly wealth to explore.

Seek not his bottom, but survey his shore.

In short, we are perfectly content to leave the alternatives of this question where they at present are—that is, in the hands of the corporation of London; and herein we are not chargeable with putting a blind confidence in any set of men. We are only exercising a rational trust in the integrity and skill of persons, who, for a series of years, have given andeniable pledges to their fellow-citizens of their determination, as well as their competency, to carry forward, by a steady and efficient process, a measure whose breadth and compass will be nitimately co-extensive with the evil which they seek to rectify. What power a rapid stream possesses of purifying the futid waters it receives, we cannot specifically determine; but we have reason to believe that motion, with other existing properties, in a tidal river, have a power tending to retrieve its purity, and to restore the balance of its gaseous elements. In the present instance, we have a river with two flood tides in the 24 hours, bringing from the sea the chlorine and the saline preservatives which are always in solution in seawater, and also two sea-going tides, carrying down the debris of a great metropolia, and losing it in that occan whose waters are careering summer and winter from shore to shore.

If there be a more compendious and summary method than such an one of removing the sewage of this capital city, we shall be glad to hear of it, but most assuredly neither of the expedients purposed is that method, and we wish at present, and in the absence of more practicable suggestions than those which have a yet appeared, to record our opinion, that the present means by which the night soil of London is disposed of is the least objectionable, and the most efficient by which, either in a physical or an argumentative sense, the solution of this confessedly difficult question can be realised. One consideration we would jus

the river itself, and the health of the marginal districts lying along its course. Beyond all doubt the Commissioners of Sewers are the parties directly answerable for the safety of the two cities, in respect of their drainage and general wholesomeness. In so great a work, although hurry might be mischievous, speed and dispatch are of all things essential. The times are imminent—a fatal archer is among us—and on every hand is heard the shrill twanging of his bow. It is for all parties; by temperance, by individual and household cleanliness, and especially for the commissioners, by the diligent discharge of the duties for which they were appointed, to limit and to lessen the destructive activity of that foe, whose arrows are flying too thickly through our atmosphere.

A case of very considerable importance (Barnes & Piennella and Others), in the nature of an appeal from one of the superior law courts, was heard in the House of Lords last week, and on Monand Others), in the nature of an appeal from one of the superior law courts, was heard in the House of Lords last week, and on Monday Lord Campell gave judgment. This case arose out of certain transactions with the Forth Marine Insulance Company, established in 1839, it being held out that the capital of the company was 100,000l., when at the time of the transaction there had been no more than 10,000l paid up. It appeared that in Nov., 1842, a clerk to the appellant, named Mackenzie, was the holder of 50 shares, on which a call was made of 2l. 10s. a share; Mackenzie remitted 7l. 1s. 10d., being at the rate of 2s. 10d. per share, which he imagined was the amount demanded; he did not pay the balance, and legal proceedings were threatened, The appellant, wishing to save his clerk from the consequences, visited Edinburgh, and called on the law agent of the company, Mr. Gilmour, who was himself a large holder, and from his representation of the state and prospects of the company and the balance-sheet, he was induced to pay 120l, and have Mackenzie's shares transferred to him. Shortly afterwards additional heavy calls were made, and he discovered that the statements and representations were false, and it was laid in the declaration that the directors knew them to be false—that they had concelled their losses, and divided, as profits, what, in simple truth, is a part of the ceptral stock, and which ought to have gone to pay greater losses, and that they had actually lost 95,704l, beyond its paid-up capital of 10,000l. He refused to pay any further demands, which led to litigation. For some time they attempted to conceal the ruinous state of affairs, and applied to the Court of Bankruptey, for the purpose of compelling appellant and others to pay the demands upon them. The assignees under the fiat were the respondents in this case. The balance-sheet, it was stated by appellant, disguised losses amounting to the shareholders, and shown to appellant, disguised losses amounting to the shareholders, and shown to appellant

Lord Campelli, in passing judgment, took a very elaborate view of the nature of offences of this character, committed by directors of companies for the purpose of giving a false colouring to the state of their affairs. In remarking on the interview with Gilmour, his lordship said—

remarking on the interview with Gilatours, his loydship said—
"The character in which Mr. Gilatours had stood in respect of this company would, in England, have been looked upon as that of the solicitor to the company. Now, the mis-representations which were complained of by the appellant had been made by that genetisman, the law agent. Hence this question areas—whether the company wers to be taken as being bound by any communications which Mr. Gilatours had, at that interview, made in reference to the commercial affairs and presperity of the company. Upon this point the noble and learned lord said, that, in his opinion, in making those representations, Mr. Gilatours had not acced within the scope of his authority. That gentleman had simply been employed by the company to demand and to see for debts which might be due to the company; as it is was clear that he was not, in that capacity, authorized to make any representations respecting the concerns of the company. It had not, however, been contended that the company was bound by what had been add that the company was in this instance, so bound, from the fact that Mr. Gilatours had, at this very time, himself been a partner; and, further, that inasouch as that the company being an unincorporated joint-stock company, the whole concern was in the same position as that of a mercantile partnership. In such a partnership as this last-named what was said by a Partner showing that directors could not be liable for what was said by a

After showing that directors could not be liable for what was said by a parcholder, his lordship continued—

"If the appellant had been defrauded by the directors the transaction was void. If they had made false represents ions, by which he had been induced to accept a transfer of the shares, then that transfer might be set aside. But having been executed, as it had, by the appellant, he could not set it saide unless he showed very clearly that he had been induced to act in this way by the deceit of the directors. There did not appear here to be any ground to charge misconfust on the directors. metropolis is accomplished by poisoning the Thames.

Amongst many plans which have been devised for obviating such criminal conduct towards our ancient and illustrious friend, the metropolitan river, two have survived the others. It is proposed, first, by a new class of converging sewers, to collect the drainage into an adequate number of district cesspools, from whence it is to be removed by steam pumps and an appropriate machinery into the country districts for manure. The second method proposed is to construct a mammoth sewer—a kind of supplementary river bed—following the course of the Thames at London, by which the floating soil of the entire city may be carried out to see. We have no desire to anticipate the judgment of the Board of Health, or of these proposals is highly inefficient, and the other highly impracticable. Have we a third remedy —No, we have not. We believe the avid does not admit of a perfect ours; that a great city is, in this and in other respects, a great evil, and must be borne with, in consideration of its more than countervailing advantages.

No doubt the original foundation of great cities on the banks of, or proximate to the course of, great rivers, we senecuraged by the fact, that the waters visiting their ground following the course of the supplied that the first of the supplied that the supplied of the course of the supplied that the supplied of the course of the supplied that the supplied of the course of the supplied to the course of the supplied t

### UNITED MEXICAN MINING ASSOCIATION.

Here startly on which this property rests does not appear to be upderstood. Many startsholders, or years' standing, fulge only of its value from the divisional paid, added to one varge and only of the sources from which the company and the paid of the paid o

The Tin Trade.—The quantity of Banca tin, about to be sold by the Nederlandsche Handel Maatschappi, at the White Swan, in Amsterdam, on the 2d August, is 249,937 blocks; of these, there are 166,705 blocks, in 175 lots, laying in Amsterdam, and 33,292 blocks, in 86 lots, in Rotterdam, Each lot in general averages about 1000 blocks, equal to about 30 tons English. This, however, is not a general rule; many are over 1100. The largest quantity to be sold in one lot (No. 59) is 1379, and the smallest (No. 189), 701 blocks. The conditions of the sale do not materially differ from those in general use here. The duty on Banca tin is 6t per ton. At present, if brought to this country, it must be for exportation; but, immediately the repeal of the navigation laws. it must be for exportation; but, immediately the repeal of the navigation laws comes into force, it can be used in England for home consumption. The total quantity at present offered for sale at Amsterdam, may be calculated in round numbers at 7500 tons. Whether any of these will be warehoused in Holland, until it can be imported into England, untier the new regulation, is at present doubtful. We have heard-there will be no further sales until the year 1851. The house of Blikmen and Sartorius, in Amsterdam, are agents for the sale; the house in London, who in general transact all the English business, is Messrs. Enthoven, of Moorgate-street—one of which firm, in general, attends the sale.

The Irox Trade.—Our readers will recollect, that Mr. Charles Geach, of Birmingham, made an accusation against Mr. G. B. Thorneycroft, of Wolverhampton, of having charged a higher price for iron supplied by his firm to the Birmingham and Shrewsbury Railway Company, of which he is a director, than it could have been obtained for of the Patent Shaft and Axlatece Company, in which Mr. Geach is interested. From the high respectability of the paties implicated, this subject has obtained considerable interest, and formed a general topic of conversation during the late meetings of the trade; it is known that a committee of investigation has been sitting for some time, and, from what has transpired, it is considerably expected the report will be decidedly in favour of the accused.

### MULLINS'S MAGNETIC ORE SEPARATOR.

In our last number, we copied from the Mechanics' Magazine of the preced-ing week, particulars of Cook's patent process for removing magnetic matter from ore; and we observe that, in the following number of the Magazine, the Editor has, in reference to this subject, inserted the following article, which we down an act of justice to give the same publicity to as we did to the former

"MAGNETIC ORE SEPARATOR—AN AMERICAN COPT OF AN ENGLISH QUIGINAL. "Macric Ors Swalton-Ax Antereat Cott of an Exclusi Quicinal."

Siz.—In your valuable publication for June 10, 1843, you favoured me, under the title of "Madiline's White Load," See, will a review of a patest of mine, dated October 1842; and in your last Number, July 7, you give an account of an apparatus patents in America, by Hansome Cook, E.g., In principle and effect, you will see that my paten is the same. My apparatus is constructed of magnets obtained by galvanic action, and excepting in mechanical arrangement, My.Cook's is similar to mine. After describing my apparatus, and illustrating it with drawings, you will see that the claim set up by me if "the application of magnets to separate iron from the oxide of feed, or of other see tals," And to separate iron, the oxides are discharged down a shoot fixed at an angle of about 36°, formed of wood, or some other non-conducting material, from the botton of which the poles of a number of magnets project upwards, and to which, a slow latter seve-like motion is given by machinery; the, magnets attract and retain the Iron, and the oxides pass free.—Joun Mullin's reference, and find that he statement is outle cor [We have varified Mr. Millin's reference.

[We have verified Mr. Mulline's references, and find that his state ct. - Ep. M. M.]

[We also have ourselves examined Mr. Mullins's specification of his patent and confirm the above verification; but we conceive Mr. Mulens's patent especially taken out for a new process of making unvitrified protoxide of lead or massicot, rather than, as a prominent feature, the manufacture of white lead.—ED. M. J.]

### SALE OF THE ESTATES AND WORKS OF THE COPPER MINERS' COMPANY.

On Tuesday, the 17th inst., the estates and works of the Governor and Com-pany of Copper Miners in England, established in 1691, were offered for sale, by Measrs. Shuttieworth, at the Auction Mert, when there was a tolerable attendance of parties connected with the company and the metal trade. Mr. Shuttleworth stated, that he was instructed by the trustees, under a mortgage deed, to offer the whole of the property for sale. After reading the particulars, and dilating on the value of the establishment, he concluded with leaving it entirely to the discretion of those assembled to make an offer. After some period, there not appearing any disposition to purchase—not a bid being made—the sale was withdrawn. From what transpired in the room, it appeared that a notice, protesting against the sale, had been served upon the auctioneer by Mr. Lord, the plaintiff in the recent legal proceedings, and who, we understand, is about to file a bill in equity against the company and the Bank of England, impugning the mortgage deed. We trust, however, the necessity of this latter step will be superseded by an amicable arrangement—a committee of shareholders, appointed on the motion of Mr. Gilbertson, at the annual meeting, being actively engaged in taking measures to resuscitate the company, with, as we learn, some prospects of success. rs. Shuttleworth, at the Auction Mart, when there was a tolerable attend

the mortgage deed. We trust, however, the necessity of this latter step will be auperasded by an amicable arrangement—a committee of shareholders, appointed on the motion of Mr. Gilbertson, at the annual meeting, being actively engaged in taking measures to resuscitate the company, with, as we learn, some prospects of success.

The conflicting interests of the old shareholders, preference shareholders, and debenture holders, which the committee have to encounter, naturally renders this a complex and arduous task. We have, however, great hopes, from their united endeavours, that the solution of the present difficulties of the company is not far distant. Probably the Bank of England may be induced to adoptiess stringent measures, and more in accordance with the wishes of the general body of shareholders, now that they perceive the difficulty of realising the property. From the annexed twier description of the establishment, it will be found of such magnitude that it would be difficult for any private individual, unless possessed of great resources, to undertake the responsibilities which would devolve on him by the puschase. In the event of a bond fide ale, either a company must be formed to work the entire, establishment, a perctofors, or it must be subdivised into separate lots to suit, the convenience of individuals. A great portion of the land and minerals is held under Lord Jarrey for a company must be formed to some the premiser, exclusive of that used in blast-furnaces, and not exceeding 1814/40,000 bs., 1000.1; for cal, iron ore, and ironstone, to be used in two blast-furnaces, and not exceeding 1814/40,000 bs., 1000.1; for cal, iron ore, and ironstone, and the result in the premises, exclusive of that used in blast-furnaces, and not exceeding 1814/40,000 bs., 1000.1; for cal, iron ore, and ironstone, but be used in two blast-furnaces, for smelting iron, 5001; for ditto, to be used in every additional blast-furnaces, for the measure of the premises, exclusive of that used in blast-furnaces, and not covere

MODUM COBALT-Works.—The auction of these works was held on the 20th June; the mortgages on it are at present to the total amount of \$115,000; the only bids were those of Bernburg Goslar, \$35,000, and Baron Benecke Von Gritzberg, \$37,000. These not being sufficient to pay the above-named mortgages, the sale was withdrawn until the 20th inst, when the property was to be sold without reserve. The attempts to form a company in Christianus, according to the Morgenbladt, have hitherto been unsuccessful; not more than half the shares have been taken. When so much doubt is expressed in the capital of the country, it cannot be expected that shares will be taken in foreign countries, where so little is known of the value of the mines and the projectors of the company.

COAL MINES UNDER THE RIVER DEE.—There is a select committee of the House of Commons now sitting upon the management of the Crisen property by the Commissioners of Woods and Forests. That board is now on its trial, and it is said that some extraordinary disclosures have been made this essaion (the committee sits with closed doors), in addition to the body of evidence embedied in the report of the same committee during the session of 1848. It is rumoured that there are some curious disclosures made as to the encroachments and usurpations of two or three magnates upon the mines and minerals under the estuary of the Dee, in the counties of Flint and Chester, under colour of certain improvident grants from the Crown in the time of the Stuarts; but it is said that able lawyers put a widely different construction upon those grants, and it is now understood that the Crown has only to put in action its undoubted right to these valuable minerals (coals and ironstone) to get speety possession of them. There will likewise be a large amount of back profits for somebody to refund, amounting to several hundred thousand pounds. The commissioners are now prompt as they were before lardy in asserting the Crown right; as a precisely analogous case, "The Attorney-General against Rees and others," where the coals under the estuary of the river Bury, in Glamorganshire, are claimed by the Crown from Lord Cawdor and his lessees, is in full progress before the Muster of the Rolls,—Chester Courant,

### IMPROVEMENTS IN FURNACES.

[Abstract of Specification of Thomas Newcomb, covernments in furnaces.—Enrolled, July 18, 1849.]

This invention consists in, and has reference to, the construction of the fire bars of the furnaces of steam-engines, in manner set forth, described, and exemplified by the drawings annexed to the specification. The drawings exemplify a mechanical arrangement of the following construction—viz.: A series of inclined fire bars, moving in inclined guides, are fixed to the frame plates of the furnace; these fire bars have projections beneath, which connect them by means of pin joints to longitudinal bars, each alternate fire bar being attached to one longitudinal bar, the other fire bars being similarly attached to oncher longitudinal bar, the other fire bars being similarly attached to oncher longitudinal bar—so that whilst the one set is being moved forwards the other set is being moved backwards, which not only causes the clinkers to be cleared away, but also sends the fuel to the back of the furnace. One end of each longitudinal bar is, by means of eccentries, connected to an axis, upon which a pinion is fixed, which takes into cog-wheels in gearing with another pinion, fixed on an axis carrying a drum or rigger, which has motion communicated to it by an endiess strap or band, passing around the shaft of the engine, by which means motion will be communicated to the drum or rigger, and thence, through the agency of the cog-wheels, to the longitudinal bars, giving the required motion to the mechanism.

In some cases the patentee makes use of a central supporting bar, in which is an aperture communicating with the water, through which the water flows, in order to keep the mechanism.

This one cases the patentee makes use of a central supporting bar, in which is an aperture communicating with the water, through which the water flows, in order to keep the mechanism.

Having described the nature of his invention and the manner of performing the same, the patentee states, that he desires it to be understood that he is aware that moving fire-bars have been before adopted, what he claims being the adoption of the arrang This invention consists in, and has reference to, the construction of the

### BRUNTON'S NEW COLLIERY VENTILATOR.

Among the many contrivances for colliery ventilation which have been called nto action by the number of awfully fatal colliery explosions, which so rapidly Among the many contrivances for colliery ventilation which have been called into action by the number of awfully fatal colliery explosions, which so rapidly succeed each other under the present systems, there is one by Mr. William Brunton, which is said to be exceedingly simple, is capable of removing all explosive gases from a mine to which it is applied, and which we have before briefly noticed. It is a machine, we are informed, without valves, or separate moving parts, all the friction consists in that arising from a foot pivot working in oil, when at rest it offers no impediment to the air ascending from the pit, is not liable to derangement, and inexpensive. It may be driven by a steam-engine or water-wheel, and by it any degree of rarefaction necessary to ventilation is rendered certain, regular, under visible inspection, and certain control. The current may be greatly increased during the night, or other period when the pit is not working, and thereby prevent that stagmant and dangerous state of the air now so prevalent during suspension of work. It also possesses the power by which the atmosphere of a colliery can, in a quarter of an hour, be subjected to an exhaustion equal to half an inch of mercury, and thereby powerfully drawing out the gas from the coal, and from the wastes and goaf poinds during the absence of fire or light, and, consequently, of danger from explosion, and also the power of restoring the equilibrium, and clearing the colliery of fire-damp, before the man enter, by a more vigorous and energetic current of fresh air than has hitherto been attainable by the ordinary means of ventilation.

One of these machines is now ventilating the Gelly Gaer Colliery, near Newport, and is giving the greatest satisfaction to W. Powell, Esq., as well as to all the coal proprietors in the neighbourhood, who have witnessed its working. The machine is applied to the top of the upcast shaft by a short tunnel, or air course, and the amount of rarefaction produced is indicated by a water gauge. In one expe

### PROGRESS OF THE ELECTRIC TELEGRAPH.

PROGRESS OF THE ELECTRIC TELEGRAPH.

On Saturday last, an exhibition of the various machines used in this country and on the continent, for effecting an instantaneous transmission of intelligence between distant points, took place at the Music Hall, Store-street, Bedford-squara. Mr. Francis Whishaw, was the exhibitor and illustrator, and explained to a numerous circle of scientific visitors, and others interested in the progress of the development of mechanical power, the mode of working of the machines exhibited, availing himself of the opportunity afforded him to demonstrate the superiority of the plan of telegraphic communication, of which he in the inventor, over that at present adopted on the railways of this country. In the system which Mr. Whishaw proposes, he endeavours to avoid the defects of the telegraphe hitherto used in this country. These defects consist in the exposure of the wires (suspended between perishable wooden posts) to snow-storms and lightning, as also to the mischief likely to ensue from trains running off the rails, and to damage from malicious persons. He takes advantage of the properties of gutta percha, which has been found to be the most effectual non-conducting substance for coating the electric telegraph wires as yet discovered, and he places the wires underground at a depth of about 2 feet 6 inches. When it is necessary to run them under streets, he protects them by means of strong clay multitubular pipes, and when under railways and public roads, with a coating of gutta percha. In cases where it is necessary to protect the gutta percha from the injurious action of water, he encloses it in a brading of yarn, saturated with tar, and coated externally with marine glue. All the instruments used in his system require only one wire, both to give the signals and ring the bell, and hence economy is effected. In fact, be undertakes to furnish a telegraph on his plan, with instruments and battaries at intervals of 10 miles, for a charge of 40½ a mile. Several instruments which were subm

The Electric Telegraph.—The directors of the London and Birmingham Railway are about making a dangerous experiment with the telegraphic business on their line. Economy, is commendable, but it may be carried too far—and such will be found to be the case in the present instance, if we mistake not. As we are informed, the Telegraph Company are to keep their own employes at the several offices during the day, while the Railway Company are to work the instruments at night. This arrangement is looked upon anything but favourably by those persons who are intended to be elevated to the post of honour, as they consider that their duties are sufficiently onerous already, without having additional ones—and particularly of so responsible a character—imposed upon them.

Revenue of the Duchus of Lancaster and Cornwall.—The revenue

posed upon them.

REVENUE OF THE DUCHIES OF LANCASTER AND CORNWALL—The revenue of the Duchy of Cornwall for the past year amounted to 67,521.7 a 3d., and the expenditure to 38,132. teaving a balance available of 29,389. Of this gum, 24,600. have been invested in the purchase of beneficial interests—thus leaving a balance in the hands of the receiver general of 4789. Lis. 5d. The revenue of the Duchy of Lancaster, in the same period, was 38,036. 14a. 2d., and the disbursements 38,300. Leaving a balance of 4512. In the hands of the receiver general. The payments in the course of the year out of this revenue to her Majesty's privy purse amounted to 12,000.

ROYAL Assent TO RAILWAY BILLS.—On Friday week eight railway Bills received the Royal Assent it, the amount of capital authorised to be raised being 560,000. on shares, and 186,666. on loan—total, 746,666? I7 railway bills, including the above, have received the Royal Assent this session, authorising in the aggregate 2,106,500. to be raised on shares, and 758,831. On loan—total, 2,863,381. This sum is principally required for the completion of works already sanctioned by former Acts.

### Original Correspondence.

THE COBALT TRADE-METHOD OF DRESSING AND REDUCING THE ORES AT THE MODUM COBALT WORKS.

Sin,—As these works appear to have excited some notice in England some personal remarks made on the spot may not be uninteresting to your some personal remarks made on the spot may not be uninteresting to your numerous readers. Cobalt ore was first discovered in the district of Modum, in the year 1772, by a miner of the name of Ole Witlock, who had previously been dismissed from the service of the Kongsberg Silver Mines. In the following year, the director of those mines commenced operations at Modum for account of the Danish Government. These works were prosecuted with various fluctuations until the year 1822, when they came into possession of the late proprietors. The mines are situated on a range of hills on the Skuterud estate, in the parish of Modum. The formation of the hills, and the occurrence of the metalliferous deposits, are particularly interesting, and widely differ from those we are accustomed to see in the Cornish mines. The range is composed principally of gneiss, with beds and layers of felspar, quartz, and hornblende; the strata run nearly north and south, with a westerly dip. The metalliferous part varies very considerably both in size and mineral contents; it runs with the strata, and is called a fahlband, derived from the word fahlne, to fade, and band, a stripe. It may be distinguished from the other strata by its brown appearance, arising from the decomposition of pyritous and ferruginous minerals with which it is impregnated. The ores of cobalt occur only in a strata of gneiss, and seldom or never in those of hornblende, where they are generally replaced by arsenical pyrites. The more abundant deposits are found in micaceous gneiss, rich in felspar and quarts; but, on a transition taking place to hornblende gneiss, the ores of cobalt are rarely found. The old mines are open excavations, resembling deep quarries; but latterly a system of levels and shafts have been introduced, which will enable the proprietors to excavate the produce more advantageously, and a greater extent of metalliferous country will thereby be explored. A series of adits supplied with railroads are well adapted to facilitate the operation of draining a us readers. Cobalt ore was first discovered in the district of Mo-

geiher in short lengtha--the former being 24 in high, and 2 in thick. The large and, for mining purposes, apparently incommodious tram vaggons are brought to the surface, where they monitor that a lever. The principal alist and levels are excavated by burning with wood, of which a plentiful supply is found in the vicinity of the mines. This process has been found more expeditious, less expensive, and subjects the miners to fewer accidents than the usual mode of blasting. The metalliferous and other strats follow the run of the mountain, with all its indentations and irregularities; but where the latter ends abruptly towards the south-east, the metalliferous deposit is no longer to be found. In the opposite direction, towards the north-west, its continuation has been traced to Snarum, a distance of about eight English miles, where cobalt works have also been erected.

The dressing department is attended with great difficulty; and it requires an experienced eye to detect the extremely minute particles of co-balt, which in ores of a low quality are thirly disseminated throughout a quarta ore matrix. On being brought from the mines, the ores are divided into three classes, denominated rich, medium, and cupreous ores; these are again subdivided into prills, dredoge, and haltonus—cach requiring a different treatment in the subsequent processes. These operations are all performed at the mines: the produce is afterwards transported to the stamps, which are creeted at Hougfos, on the Simon airver, about severe English miles distant, and opposite the chemical works. The cascade presented to the contract of the stamps of the contract of the mineral takes place. They are not supplied with gratings, as in English miles distant, and opposite the chemical works. The cascade presentiner; the might be miles of the board over which it passes. The larger particles are caught in a long quadrangular trough; whilst the slimes flow into a series of pits, where the water is nearly still, and a subsidence of the mineral takes place. Th

stone in the bottom of the cistern is about 3½ ft. in diameter, and 4 ft. thick; on this two semicircular stones move to and fro, at the distance of 10 or 12 in. from each other, and grind the glass into a paste with water. The large revolving rollers, resembling a cider-press, produce the same effect. The paste is next strained into water; and the finer particles held in solution are poured off and allowed to subside; this sediment, when dried, is the cobalt of commerce. The coarse particles are returned to the mills, where they are re-ground, and afterwards treated in the same manner as before. The various qualities are denoted by different marks; these are divided into two classes, denominated eschel (zaffre), and coleur (smalts); their component parts do not materially vary—the only difference being in the fineness of the powder; the former sort is generally of a lighter blue colour than the coarser. These are marked from 5 F E, or 5 F C downwards, and represent the qualities of the products obtained from the different compositions. The ores contain a great quantity of arsenic, which is collected in a long gallery, ending in a chamber; it is afterwards put into close barrels, which are sometimes buried in the ground, and at others kept in house built for their reception. Some years ago, a large quantity was taken far out to sea and thrown overboard. The great accumulation of arsenic is a subject of much annoyance to the works, as they can neither get rid of it by land, water, or volatilisation—either of which would be equally destructive to animal and vogetable life. Great

precautions are taken to prevent the escape of this deleterious vapour; and the workmen employed on the premises appear healthy, and less affected than from the nature of their employment any one could have supposed. I sent a sample of this arsenic to a manufactory in Cornwall, in the summer of 1844, with a timber vessel from Drammen to Falmouth; but, having received no reply to my communication, I suppose that it either did not come to hand, or else was not approved of by the parties to whom it was addressed.

not come to hand, or else was not approved of by the parties to whom it was addressed.

A company is about to be formed in Christiania for the working of these mines, which has given, within the last 20 years, \$500,000 in profit. Owing to the general stagnation in mercantile affairs, and the introduction of ultramarine, the sales for last year were only 17½ centner of 5 F E, to the value of 1591; 654½ centner 4 F E, 45251; 94½ centner 3 F F, 4541. 10a.; 210 centner F F saffre, 21281, in all, about 72661. 10s. This, however, cannot be considered a criterion. The respectable firm of Solly, Lister, and Co., have stated that, in England alone, during the present year, about 400 barrels of smalts, and 300 barrels of zaffre, to the value of 11,0001, can be sold. There is no doubt that a company taking these works, with a capital of about \$150,000, would find them a profitable concern.

Should these remarks be of any interest to you, I shall be happy, at a future period, to give you some further information respecting the other Norwegian mines, which I have no doubt will be of interest to yourreaders.

Alten Copper-Works, Finmark, May 28.

S. H. Thomas.

### RAILWAYS AND MINES.

RAILWAYS AND MINES.

Sir,—It was not my intention to have entered upon this subject again, as I had no desire to run down the mining interest, especially as I am personally interested in its success, both as a shareholder and a lessor; at the same time, as your correspondent, "Placer," invites a reply, I cannot refuse to comply. If I correctly understand the purport of his letters, they are intended to show that mining, as a money investment, is preferable to that of railways. I am, with him, ready to admit that the subject has not been fully entered into, or proof given, as to either investment which of the two is to be preferred. The losses upon both descriptions have been severe to those who have speculated beyond their means; but if losses upon shares, and slender dividends upon the aggregate, prove that railways are bad investments, the very same arguments must prove that the mining interest is in a no better position. Railway property is comparatively a new description of investment, and as some of the early lines made such good profits, railway after railway was projected, until in 1845 and 1846 the country appeared likely to have been covered with these iron roads, had those projected been completed. There is (fortunately for the mining interest) a difference between projecting a railway and making it; and those who will take the trouble to investigate for themselves, will discover a difference in railways as to their value after they are made, irrespective of the price of the shares, for the price is not always a correct index of the value.

If a railway possesses the elements of a good traffic, such a line may at present the low in writes that it will be averegated.

cover a difference in railways as to their value after they are made, irrespective of the price of the shares, for the price is not always a correct index of the value.

If a railway possesses the elements of a good traffic, such a line may at present be low in price; but if its cost per mile be moderate, it will be sure to pay a fair interest on the capital expended. If the expenditure should be heavy per mile, the traffic must be above the average to pay a fair dividend. The Blackwall Railway, for instance, has an immense traffic per mile; but the cost per mile being unusually heavy, the dividend is small. The cost of the London and North-Western per mile was great; but the traffic is also great, and the dividend is good. It is impossible for me to enter into this subject so fully as desirable, on account of the large expenditure incurred upon lines not yet opened, and the great extent of mileage but recently in work, the traffic upon which is by no means fully developed, neither will it be for some three years to come. It should not be forgotten, that most of these new lines have cost less per mile on the average, or will cost, and that, therefore, they will not require so great a traffic per mile as some of the older lines, to enable them to pay a fair dividend. There is no reason for apprehension that railways will coase to become the high roads for the transit of both passengers and merchandise, or that they will not, with some few exceptions, pay a fair interest upon the expenditure, unless the country should become less populous, and the commerce of the nation be destroyed; they will be worked long after some of the crack mines of the present day have ceased to command attention, except to the passing traveller, if we can judge of the future by the experience of the past, since but very few of the mines continue good for many years. If a reference be made to the favourite mines in the list for March, 1842, a period not by any means remarkable for great speculation, we shall find that in some cases the s

Shows an aggregate loss upon the expenditure of ... £1,137,616

In the foreign mines, the sum expended is ... £5,148,932

The present value of the property, at same date ... 1,237,437

ws a loss upon the amount expended of ......... £3,911,495 mining interest is not a new thing, it is, perhaps, not unfair to conclude that this, in the aggregate, will not be materially increased, as the mines at present good cannot, in the course of past experience, be expected to continue profitable for any long period, irrespective of the value of the produce. The income derived from railways does not at present quite amount to the same rate per annum as that derived from mines, if the total expenditure be taken into account. When most of the new lines and branches of old lines have had time to develope their traffic, and those lines are opened which are now in progress of construction, I shall not fear a comparison; but under present circumstances, it cannot with propriety be made at the present period. With regard to the question by "Placer," as to the mileage worked by the Great Western in June, 1848, I will inform him that it was 281\frac{3}{2}; these figures include the 75\frac{1}{2}\$ miles of the Bristol and Exeter, the receipts of which line were, and are, included in the traffic receipts of the former up to the 1st of May last. The mileage of the Great Western is now 230, that of the Bristol and Exeter 87 miles. The mileage of many of the railways is not correctly stated in some of the traffic returns, and I have frequently on this account experienced some difficulty in estimating their relative value. In conclusion, I will observe that, in the preceding remarks, I have been actuated by no "bearish disposition" towards the mining interest, and have, with regard to it, only stated things as they are, and hope that some improvement may shortly

take place; at the same time, I must say that I cannot see why any oconnected with that interest should take credit to himself for his sagacit should he fortunately obtain a prize in that most uncertain of all speciations.—Verbum Sax: Devon, July 14.

### VENTILATION OF MINES-THE SEWERS OF LONDON.

SIR,-Within the last few days, I have been summoned to give evince before the Lords' Committee, now sitting on the loss of life in coal

Sir,—Within the last few days, I have been summoned to give evidence before the Lords' Committee, now sitting on the loss of life in coal mines; and my attention has been called to a parallel case—the sewers of London. The sewers of London may be rendered free from serial poison, which now fills them, and runs over at every gullyhole and open mouth; into the streets, tainting the atmosphere and destroying life, with less difficulty than the immense galleries of our northern mines.

We ventilate 70, 80, and sometimes 100 miles of passages, discharging light carburetted hydrogen and other deadly gases, to the amount frequently of 5,000,000 cubic feet in the 24 hours, and render them so pure, that the men live and healthily work in them. The galleries of a coal mine are a series of passages, like the London sewers, always emitting deleterious gases. Could we not sweep away these immense collections, the miners could not work in the galleries without being poisoned.

The whole sewer passages of London, on both sides of the Thames, do not exceed collectively 500 miles. Twenty of our largest coal mines, out of the 140, possess more than the same extent of passages, and of larger sectional areas. We ventilate these extensive passages at very little cost, then why not ventilate these similar underground passages—the sewers of London—and free the inhabitants from the pestilential effluvium that now infests them? The high-pressure steam jet will most effectually do this. It at this moment is passing through the extensive galleries of Seaton Delaval coal mine, amounting to between 50 and 60 miles of ærial "sewers," upwards of 135,000,000 cubic feet of fresh air in every 24 hours. It is in evidence that the gully holes of the London sewers being first trapped, this jet will drain off to particular points these poisons, which, no doubt, aid the progress of the present pestilence, pass them through, decompose, and purify them by fire. The phosphureted, sulphureted, and light carbureted hydrogens can thus easily be disposed o

### ON THE ACCUMULATION OF GAS IN UNDULATIONS, &c.

ON THE ACCUMULATION OF GAS IN UNDULATIONS, &c.

Sir,—Your correspondent, Mr. Evan Hopkins, in answering my letter, has prefixed the title as above, and has drawn his deductions from the circumstances which attend the working of the thick coal in Staffordshire, which he says is a common occurrence there. He thinks the north country viewers have seldom seen pipes employed "for clearing the backs of old workings, and in rising to meet the sinking of shafts," &c.; but in this he is much mistaken, at the same time they are two totally different applications. In the one case, the old workings must be insulated; and in the other case the piping is superseded either by bratticed air (a monater pipe), or a double air drift. As to the theory of she carburetted hydrogen lodging in the upper parts, except removed, it is now stale, for the columns of your Journal have had countless schemes of piping founded upon it, not one of which has hitherto borne the test of practice. But to come to the practical test; let Mr. Hopkins imagine himself in a north country colliery, to which is attached hundreds of acres, part standing in pillars, and other parts constituting goaves, filled either with carbonic acid or inflammable gas, which gas must either be carried off by ventilation or be piped. Further, let him suppose that such goaves exist in three or four divisions of the colliery, distant from the shaft 800 or 1000 yards each. Now, let him give us the size and expense, and practical application of his system, whilst I forego the objection formerly made of getting the gas into the pipes without the air of the mine. This will be worth a volume of theories. I suspend the notable fact that the pores of the whole eaal give out the gas which is invisibly mixed with the air current, and cannot be got hold of by pipes, for the position of the working places is continually altering. Had gas been suspected to be lodging in the Hebburn undulations, undoubtedly the ventilating current could have been thither directed, and the danger removed.

This, indeed, is inexplicable, and would, I doubt not, baffle the efforts of the Lords' Committee, who are examining evidence as to the "best memes of producing intense ventilation."

Undoubtedly, the splitting of air during the infancy of the practice had its difficulties; but these difficulties are now at an end, if only a sufficient supply can be had for the application. The piping system has been discussed; now for the "boring down" from the surface. In collieries where the coal is upwards of 100 fms. deep, and the strata abound with water, the expence and mischief of such an operation, however simple in theory, renders it totally impracticable. He instances Staffordshire, as being applicable to such a system, and possibly it might in some cases; but in no part of the kingdom is there so great a superfluity of shafts, nor so great opportunities of having immense ventilation, since the seam is 30 ft. thick; therefore their fashion of mining may be very properly called in question, as it constitutes vast magazines of gas which are there shut up; but as the working of this seam is unlike any other practice, it requires deep thought and much investigation before it be properly judged of.

Mr. Hopkins always keeps harping upon "the upper cavities being scoured out;" but I ask him to consider a tract of some scores of acres all in a state of thrust, and filled with gas, the upper cavities of which he cannot get at, and then how will he apply his pipes? He says, "It matters not by what means the gas is forced out, whether vertically or horizontally, if it is but expelled." Here, at least, we agree; but in what we differ is, the practical means of doing it in an extensive colliery, not in a laboratory. He speaks of the opponents of the splitting system; I candidly confess that I do not know of any such, for it is indispensible to the working of a fiery colliery; but, like other useful arts, it may be abused. In conclusion, I have only to repeat that the piping system, by whomsoever promulgated, is totally inapplica

### GOVERNMENT INSPECTORS OF COAL MINES

Sin,—Trusting that you will not allow your widely-circulated Journal to be the medium of an injurious misrepresentation, I hope that you will insert a few lines on the subject of the commissioners newly appointed to examine the colliery districts, however much they may be opposed to the insert a few lines on the subject of the commissioners newly appointed to examine the colliery districts, however much they may be opposed to the opinions which you have been pleased in two or three late Numbers to express. You, Mr. Editor, and Mr. Wyld, in the House of Commons, have both asserted that the gentlemen selected for that office "have no practical knowledge of the matter they are about to report on," and that "their inspection will be worse than useless." Now, the public has a right to expect, both from the Editor of an important paper, and from a Member of Parliament, in his place in the House, that they should obtain some acquaintance with the subject, before hazarding so decided an opinion; and yet, if these attacks on Messrs. Phillips and Blackwell are not due to ignorance, they cas only be ascribed to a wilful perversion of facts, which, knowing your zeal in the cause of increased security for the collier, I cannot believe to be the case.

I am unable from personal knowledge to speak of Prof. Phillips's qualifications for the office; but of Mr. Blackwell I must unhesitatingly say, that a man better fitted for the duty could not have been picked out in all England; he has for many years, and with great success, managed his own collieries, and by devoting himself with much energy and enthusiasm to the details of underground operations, has acquired a more extensive knowledge of our coal and ironstone pits than, perhaps, any other man in the country. Moreover, he has just returned from the United States,

where he has employed many months in purely practical investigations of the modes of working their great coal-fields.

The viewers and workers of coal in the Midland colliery districts, well knowing Mr. Blackwell's high character for skill, zeal, and integrity, will, I am sure, unanimously approve of the appointment.—A TRUTH LOVER.

Flintshire, July 17.

MR. JOHN BATH'S SUGGESTIONS FOR THE VENTILATION OF MINES.

Sir.—The attention of your readers cannot too often be called to the important subject of mine ventilation, and I feel sure you will have pleasure in referring to a proposal some time ago submitted by a correspondent practically acquainted particularly with Cornish mining affairs. The communication was as follows:—

Communication was as follows:—

Sia,—Owing to the lamentable less of lives which have come to my notice through the explosion of gas in cosl mines, I have for a considerable time given the subject my seriou consideration, and am induced to offer the following as the result. By the process is the anaexed plan (the cost of which will not exceed 20th), it can be acted on during the absence of the miners at any time, and will be found a sure and safe remedy against such awful occurrences of the loss of so many lives, &c.

Smelting Works, Batterses, April 22, 1847.

Smelling Works, Battersos, April 22, 1647.

Mr. Bath proposed the firing of destructive gas by electricity, and your readers will find drawings of his plans, with descriptive references, in your Journal of the 24th April, 1847. To this plan it was objected, that it would still leave the "choke damp" to be contended with. On which Mr. Bath projected a simple mode of removing it, and at the same time ventilating the mine. His proposal was to effect this by steam, after a plan of his own. He writes to you as follows:—

Siz.—I beg to submit the following suggestions to the consideration of your readeroum attentive reflection on the subject, I am induced to believe that the idea will monifored one of practical value, &c.

John Battu

considered one of practical value, &c.

In the upcast shaft, Mr. Bath proposed to place a simple apparatus for causing a strong current of air upwards by steam jets, and your readers will find drawings, with descriptions, in your valuable "recording" Journal of the 22d May, 1847. Having for some years experienced the power to be obtained by a jet of steam with certain mechanical arrangements (the patent property of Mr. Chambers, of Llanelly), in engendering a powerful blast of air, and used by us (in preference to driving a powerful cylinder blast-engine) for the purpose of oxidising lead in the process of refining silver, I cannot but regard Mr. Bath's proposals for ventilating purposes otherwise than worthy of the attention of your mining friends.

Battersea, July 16.

JOHN MULLINS.

### MALLEABLE IRON SCREW PROPELLERS.

MALLEABLE IRON SCREW PROPELLERS.

SIR,—In your last Number, you have a paragraph headed "Malleable Iron Screw Propellers." It contains an account of the making of a wrought-iron screw propeller, 12 ft. 8 in. in diameter, and mentions it as an experiment, of the successful result of which sanguine hopes are entertained, &c., &c. It also avers that hitherto cast-iron and brass only have usually been used in making screw propellers. This is an error; they have been made of wrought-iron for several years past by several makers. I have seen them of all sizes, from 12 to 16 ft. diameter, some forged solid and some in pieces. They answer well; and I have no doubt that it is the best material for their construction. If the Woolwich authorities think they are trying something new, they are evidently under a mistake; and, as for the "amount of ingenuity" displayed, the process of forming them is one of the simplest that can well be conceived.

An Engineer.

### THE GLASS TRADE.

THE GLASS TRADE.

Sir,—It appearing evident to me that we are much behind-hand in the important manufacture of glass, and entertaining views of being able to restore to Great Britain her superiority in this trade, allow me to request the favour of your inserting this communication in your next Journal. The decline in the glass trade, which so rapidly increased immediately after the repeal of the duties, may be traced to the successful efforts of our neighbours in Belgium, where I have resided a number of years, actively engaged in mining and smelting pursuits. I have some friends who are glass-house proprietors about Charleroi, from which place many good Belgian workmen have emigrated to England, and found there that liberal support from the glass makers, which they richly deserve for their superiority in a certain branch of this interesting manufacture, and which appears, if I am right in my conjectures, to have thrown a gloom over the glass trade in Newcastle and other parts of England.

My principal object, however, is to request you to make known to your various scientific readers that, in the course of a smelting campaign, I have seen the possibility of constructing a furnace suitable for the manufacture of glass, having the following desirable and superior properties:—1. An intense heat, variable at will, and totally independent of the skill of the firemen.—2. The fuel used, be it what it may, can have no other effect on the materials of which the glass is made than fusing the mixture. This, of course, will startlethe scientific.—3. The consumption of fuel is considerably diminished.—4. The pots, or crucibles, warranted to stand three times as long as under the present system. These, Sir, are important properties, and well worthy the attention of the glass manufacturer; and, I believe, no one but myself is aware of the mode of construction of this furnace. I am willing to treat liberally with any gentlemen of capital interested, who will in return act the same towards me. Securing a patent would he produc

### THE DIAMOND.

THE DIAMOND.

SIR,—In looking over your excellent Journal, of the 7th instant, I see some remarks on the diamond by Dr. Murray, which had before escaped my notice; and am much surprised at his observation, with respect to a previous paragraph on the subject, that it was "remarkable for its unaccountable mistakes." I am generally highly gratified with Dr. Murray's communications, which are usually correct; but on this occasion he will find, on inquiry, that his "good authority" is "remarkable" for incorrectness, when he states "that the best diamond cutters in the world are to be found among the lapidaries of London." As the writer of the paragraph in question, I beg, through your columns, to state, that its general correctness is undoubted—having had my information from a highly respectable diamond dealer and glaziers' diamond manufacturer, besides other authority, and my own personal observations. The re-polishing the Nassuck diamond, by Messrs. Storr and Mortimer, bears out my observations as to that respectable firm bringing over a Dutch family, and establishing them here, with the view of being able to cut and polish diamonds in the metropolis. Although a diamond cutter and polisher is of necessity a lapidary, it does not follow that all lapidaries are diamond cutters; and, if the Doctor will take the trouble to inquire, he will find that of the five names under the head "DIAMOND CUTTERS, SETTERS, AND WORKERS," in the Post-Office Directory, one only follows the art of diamond cutting—that one is Muss De Yougle, 80, Harrison-street, Gray's Inn-road, the representative of the family above-mentioned. The late eminent firm of Hundle and Bridge were equally aware, with Messrs. Storr and Mortimer, of the desirability of establishing the diamond cutting business in London, and in one year, it is said, sacrificed many thousand pounds sterling in the attempt, from the cost of machinery, the depreciation of many valuable gems, and the utter spoilation of others, in the endeavour to initiate the workmen; and, in the e

### CALCAREOUS DEPOSIT IN WATER.

CALCAREOUS DEPOSIT IN WATER.

Sin,—I fear that the deep well water of your correspondent at Oldford is not so good comparatively as he imagines, as it appears from the constituents in an imperial (\*) "pint" that the imperial gallon contains 96 grains, which is very near twice as much as I found in the deep well water of one of the largest London breweries, and fully six times as much as the solid contents of the water of the London Docks. The absence of carbonate of soda and iron in the water in question is remarkable, considering the large quantity of salts it contains. In the analyses of the purer waters alluded to, which were made about 10 years since, I found in them both carbonate of soda and iron. The presence of the former salt in Thames water has since been amply confirmed by Dr. Clark. The best process with which I am acquainted for purifying water is that of Peof. Clark, of Abardeen; but in candour I must say, I have not yet had the good fortune of knowing the principles of Mr. Horsley's patent. In Dr. Clark's process, lime water is used, and the hardness of any water is tested with great nicety by a solution of soap. The former, if added in the proportion which he indicates in his spacification, will free the water of the greater past of the lime and magnesia held in solution by an excess of carbonic

acid. Thus the water in question, containing 18'4 grains in the imperial gallon, of carbonates of lime and magnesia held in solution chiefly as super-carbonates, would be deprived by the addition of a certain proportion of lime water, of nearly the 18'4 grains of the above salts. There is another process, which I think is very good, and which I first used seven years ago, for purifying water, and have occasionally resorted to it to render very hard water capable of infusing ten; it is, however, attended with danger unless great care be taken; but it is perfectly safe if the water purified be used for steam boilers or for distillation.

The process is as follows:—6 ozs. avoirdupois of caustic barytes are to be dissolved in an imperial gallon of the hard water. A precipitate of insoluble salts of carbonic and sulphuric acids will instantly ensue; a gallon of this barytic water will be sufficient for 30 imperial gallons of the deep well water in question, and will purify every gallon to the extent of at least 39'c grains of the salts which are most detrimental to steam-boilers July 19.

W. Birkmyre.

W. BIRKMYRE.

### SOLUBILITY OF THE OXIDE OF LEAD IN WATER.

Solubility of the Oxide of Lead in Water.

Sir.—The facts which Mr. Horsley has stated in your last Number, regarding the great action of steam and of condensed steam, upon lead, confirm my previous statements on the same subject, which appeared in your Journal of the 23d of last December. The apparently unaccountable circircumstances stated by Mr. Horsley are, I think, not difficult of explanation. The apparatus he used was, doubtless, cleaned previous to the operation. After the cleansing, the distilled water first collected, though "perfectly bright and clear," contained, notwithstanding—at least, I have no doubt—a considerable quantity of oxide of lead in solution. The "abundant white precipitate" of the second distillation, was most likely a consequence of the absorption of the carbonic acid of the atmosphere forming white lead, which, adhering but slightly to the inside of the lead pipe, became detached on re-distilling, producing a milkiness in the distilled water, which water, besides, held in solution oxide of lead; the same reason will account for the milkiness in the third distillation, and the presence of lead in solution.

lead in solution.

It is now 14 years since I first witnessed and tested the results of the great action of steam and hot water upon lead, and though I should imagine it is not an uncommon occurrence, yet I do not remember to have seen anywhere a notice of it prior to my letter in your Journal. The circumstance related by Mr. Horsley, of the presence of oxide of lead in brandy, confirms the belief that many an individual is still poisoned by lead in spirit as well as water; but, I am bound to add, it is a consequence of gross carelessness in the distiller.—WILLIAM BIRKMYRE: July 18.

### SOLUBILITY OF LEAD IN WATER.

SIR,—I read Mr. Horsley's remarks, in your Journal of the 14th inst., with some considerable degree of surprise, as it is most extraordinary he should have fitted up a still with a worm made of pure lead; for it is a well known fact to all who have paid any attention to chemical science for the last few years, that distilled water has a most marked action on lead. If a piece of clean lead be left for a few minutes only in contact with air and distilled water (at the ordinary temperature), or for a longer timecompletely immersed in distilled water, a considerable quantity of lead is taken into solution. A pewter pipe is the only kind (excepting glazed or glass tubes) that ought to be employed in connexion with distilled water. I have also very often noticed the presence of copper and lead in ardent spirits. The copper generally proceeds from the copper pipe of the worm, owing to the combined action of carbonic and acetic acids, which pass off from the wash with the distilling spirit. If lead be found in spirit, it may be pretty safely inferred that it has not been derived from any portion of the distillatory apparatus, but from salts of lead, which are used for fining such liquids.—John Mitchell: Hawley-road, July 16.

### IMPROVEMENTS IN SMELTING COPPER.

IMPROVEMENTS IN SMELTING COPPER.

Sir,—I read with much interest Mr. Mitchell's clear exposition of the principles of his invention for reducing the cost of smelting this metal, and conclude that all who are practically and chemically acquainted with the phenomena developed in the assaying of copper ores, must admit his process to be a decided step in advance of the present tedious and roundabout processes pursued at Swansea. The saving which can be effected in the poor ores of copper by his patent will, I have no doubt, amount to at least 5l. per ton of copper; but, unfortunately for the mine adventurers of Cornwall and Ireland, the question now, in consequence of delay, is not whether a reduction of 5l. can be effected in smelting, but whether the best selected copper can be produced in this country at 50l., instead of 82l. 10s., the present price.

ther a reduction of 5l. can be effected in smelting, but whether the best selected copper can be produced in this country at 50l., instead of 82l. 10s., the present price.

If the miner had taken the initiative some years since, as he ought to have done, in adopting improvements in the smelting of his ores, he would not have stimulated, as he has, by his apathy, the Anglo-Saxons of South Australia and North America, to begin not only to work their copper mines, but to smelt their ores likewise. It will not do any good to tabouthis matter; on the contrary, a great deal of harm, for assuredly as the recent startling announcement of the sale of 250,000 slabs of Banca tin, at Amsterdam and Rotterdam, on the 2d of next month, instead of the comparatively moderate quantity of 85,000 slabs for sale last year, we shall have at least as formidable compatitors in the copper market within a very few months of this time; for to our discerning Brother Jonathan we are probably indebted for augmenting the sale of tin at these two towns from about 2600 tons, as it was on the 29th of last August, to the large quantity of about 7647 tons for sale at the same towns on the 2d of next month. We now know tolerably well the feats he has accomplished in about four or five months, in Upper California, in the way of gold digging, far excelling, by his skill and his indomitable perseverance, all that ever was attained in the same space of time by the Spaniards or the Portuguese. No doubt we must, at the same time, allow a good deal for the extraordinary riches of the deposits—about the same, for instance, as for the rich copper ores of South Australia; still the effect of getting, within that brief space of time, \$7,000,000, or 1,487,500l. (of which 223,111l. has already found its way to one of the mints of the United States) cannot fail to be to turn his attention more than ever to metallurgical pursuits. But to return to the matter which more immediately interests us.

The copper works, for example, at Yatala, near Port Adelaide, South

### IMPROVEMENTS IN COPPER SMELTING

SIR,—"J. R." seems to doubt that it is usual to pass air into a reverberatory furnace during the operation of copper smelting; he may, however, rest asured that it is a fact, and that all the copper works employ it. The use of the air is not, as "J. R." supposes, to effect a more perfect combustion of the products of the fuel; but to admit free and comparatively pure air (atmospheric air containing its normal quantity of oxygen, from not having passed through the fuel) to the matter in the furnage—so that the sulphur may be completely oxidised. This is the end and aim of the operation.—John MITCHELL: Huwley-road, July 16.

### IMPROVEMENTS IN COPPER SMELTING

IMPROVEMENTS IN COPPER SMELTING.

Stn,—In your last week's Number, a correspondent, "J. R.," accuses me of being one of those individuals who give no credit to others, but who are ever forward to deny a fair meed of praise whereit is due. I by no means wish to detract from Mr. Low's invention, but I am not single in saying, that he does not state very plainly in what his improvements consist. Your correspondent, Mr. John Mitchell, who is interested in a patent for improvements in smelting copper, perceived the justice of my observation, and with great good nature immediately amended his specification, which was not so much required as in the case of Mr. Low's. Pure air has for a long period been introduced into the furnaces, not to effect a more perfect combustion of the products of the fuel, but to facilitate the oxidation of the sulphur and other impurities. It is used in nearly every work in Swansen, at the Elbe Copper-Works, in the Hartz in their reverberatory furnaces, and at Alten. Until a more perfect and plain description is pub-

lished of Mr. Low's patent, with all due deforence to "J. R.," I shall remain of the same opinion that I expressed in my letter of the 2d July—that I conjecture it is nothing but a modification of the present systems.

July 19. Germanicus.

### QUERIES IN SMELTING.

QUERIES IN SMELTING.

SIR,—Having an extensive interest in silver-lead mines, will you permit me to solicit, through the medium of your columns, some well-informed person to favour us with the details, or as least the distinctive characters, of Hornblower's method of smelting? Perhaps Mr. Mitchell will impart the knowledge sought, and make a few observations, in his simple nod happy style, on the general indications of treating argentiferous galenas, as well as the best modes of fulfilling these intentions in practice. Is Hornblower's method of smelting patentied? and, if so, when, that I may see the specification. I trust I do not too much trespass in this presentation.

Charing-cross, July 19. GUSTAV RADLINSKI, Compte et Chevalier.
P.S.—Perhaps some one of the candidates for the appointment of silver-lead smelter, advertised in your Journal, may deem it meet to instance his fitness and general knowledge, by furnishing the required information.

IMPROVEMENTS IN SMELTING COPPER—ABSTRACT OF SPECIFICATIONS.

Sir.—In Mr. Mitchell's letter, in the last Number of the Mining Journal, he states that the notice given of his specification, in No. 723, "is open to the same objection as Mr. Low's (see your correspondent, "Germanicus"); is does not as all explain the nature of the invention, and is, moreover, calculated to convey an erroneous idea of the process altogether." Now, as I have the honour of reporting patents from time to time in the Mining Journal, I think it will be conceded that I ought not to allow what amounts to an accusation of having mis-reported two specifications within a fortnight to go unrefuted; because, if this fact were established, the readers of your Journal would be apt to regard these reports as a waste of its valuable space. With regard to Low's specification, if Mr. Mitchell (and "Germanicus" also) will do me the favour to refer to the report in No. 723, they will find it there stated that Mr. Low has given no details or diagram illustrative of his invention, and upon reference to the specification itself, at the Patent Innolment Office, Chancery-lane, they will find this statement correct; and further, that this specification is reported nearly verbatim, it being a very short one, so that however deficient it may be as an exemplification of the invention, the deficiency is not chargeable to the reporter at all. the reporter at all.

an exemplification of the invention, the deficiency is not chargeaue to the reporter at all.

As regards Mr. Mitchell's own case, although I cannot admit for a moment that his strong language of condemnation of the report is at all admissible (and the readers of the Mining Journal now have the full details before them, and can judge for themselves). I am yet willing to grant that the full details of the invention were not given; but full details or grant that the full details of the invention were not given; but full details are more than I can profess to give in the generality of cases, especially in such as that of Messra, Mitchell, Alderson, and Warriner's, a specification which is full of divisions and subdivisions; for it must be borne in mind, that in order to supply the abstract of a specification, in the generality of cases, one has to peruse the document at a most inconvenient office, where we are not permitted to take the slightest note or comment. It cannot, therefore, be expected that full details of an invention can be reported in this way; if it were attempted, unless a very considerable portion of time were bestowed upon each invention (probably more than its merits would justify), the result would most likely be a miserable failure. In conclusion, I must protest against patentees being allowed to call the correctness of abstracts of their own specifications in question; because they are in full possession of the invention, whereas the reporter frequently knows nothing of it, exof the invention, whereas the reporter frequently knows nothing of it, except as set forth in the specification.

10, Strand, July 18.

F. W. Campin.

### SMOKE NUISANCE.

RESPECTED FRIEND,—I have been informed by a Mr. Chenery, formerly in the corn and seed trade, near Lambeth Palace, that he had made many in the corn and seed trade, near Lambeth Palace, that he had made many successful experiments upon coal, with a view of abating, if not annihilating, opaque, or brown-black smoke, by mixing a certain portion of quieklime; and I think he stated, that the cost of preparing the coal to effect the object would not exceed 2s. or 3s. per ton. Query: Would not coal so prepared give out more caloric, and, therefore, compensate, or even more than compensate, for the extra expense? This I must leave to those acquainted with the chemical effect of the combination.

21, Stangate, Lambeth, 7 mo. 20.

[We are not awaye what effect the cristian of the combination of

21, Stangate, Lambeth, 7 mo. 20.

[We are not aware what effect the mixture of lime with coal would have as a preventive of smoke. Although we have stated that we did not think sufficient scientific discoveries had yet been made to justify the levying of fines if smoke is seen to issue from a chimney, we are fully aware of several plans which are highly effective. Among these is one at the Wire-Rope Works, Wapping, erected under the direction of Mr. Andrew Smith. Jukes's patent revolving fire-bars have also generally given satisfaction; but in all cases much depends on the mode of firing. Mr. Rawhnson, the Inspector of the General Board of Health, says—"One means to secure effective results, is to pay the engineer, or fireman, an extra sum per week for his extra trouble and care in firing (say, from 1s. to 2s. a week), to be paid quarterly or annually, as a bonus for attention; and then deduct all smoke fines from this sum. This has been done, to my knowledge, in several instances to the perfect satisfaction of all parties. A manufacturer may pay what sum he pleases for patent smoke consumers; but if he is not in earnest about the matter himself, and does not let his workmen understand this, there is no patent means of consuming smoke." his workmen understand this, there is no patent means of consuming. In these remarks we entirely agree.]

THE New Hydro-Carbon Gas.—Referring to the paragraph, in last week's Journal, descriptive of the mode of manufacture, and merits of this invention, by Dr. Kinloch, the patentee, Mr. Stephen White, writes:—"I am gratified to find Dr. Kinloch succeeds so well with his small apparatus, and is enabled to testify to such results; but on a larger scale, and on the improved arrangement now adopted, I have been enabled to render the apparatus far more efficient; and the expense of production per 1000 feet considerably less. From 25 lbs. resin, costing (at present) 7½d., and charcoal costing 1d., and fuel in Manchester about 2d., and 13 lbs. water, costing sil, 1 easily produce 1000 feet of the most splendid gas, free from every impurity, and having a far higher illuminating power than any coal gas ever seen, and from which smoke, nuder any circumstances, cannot be drawn. It can, therefore, soil nothing."

Liabilities of Sharrholders, after Receiving a Final Dividend.

power than any coal gas ever seen, and from which smoke, nuder any circumstances, cannot be drawn. It can, therefore, soil nothing."

Liabilities of Sharrholders, after Receiving a Final Dividend, and Giving up Script, to Further Claims on the Company.—In the Vice-Chancellor's Court, on Wednesday, in the matter of the Joint-Stock Companies' Winding-up Act (1848) and the Grand Trunk or Stafford and Peterborough Union Railway Company, a motion was made, that the name of Mr. William Apps, which Master Brougham had inserted in the list of contributories under the above Act, might be struck out, under these circumstances:—In the year 1845, this company was formed with a projected capital of 1,000,0002, consisting of 50,000 shares, of 202 each, with a deposit of two guineas on each share. Mr. Apps applied for and had 50 shares allotted to him, and paid the deposit thereon, and signed the subscribers' agreement. The project turned out a failure, and on the 20th April, 1846, by a requisition of the shareholders, a general meeting took place on the 14th May, when a resolution was passed to the effect, that the directors should proceed to dissolve the company; in consequence of which, they called in all the scrip, for the purpose of its being cancelled, making a return of one guinea per share to the excluders, and at the treatment of 2s. 6d. subsequently. A general release was then prepared and signed by Apps and a great proportion of the shareholders, who also addivered up their scrip and received the 1s. 2s. 6d. on each share, and the directors then presented a polition to wind up the affairs of the company under the Joint-Stock Act, and the matter was brought before Master Brougham in the ordinary course, who found that Mr. Apps, with many others who had signed the release, delivered up their scrip, and received the winding up of the concern under the Act, as contributories. The present motion was made, therefore, in the nature of an esceptica to that decision.—Mr. Rotz and Mr. Martz appeared in support of the motion, gued that Mr. Apps was liable only on the subseribers agreement, which could only be binding when the whole capital was subscribed for—an erent that had not taken place. Before the winding-up of the company took place, Mr. Apps had, in fact, cassed to be a member of it; and he could not be called upon to contribute to what had taken place after the actual dissolution of the company, and the release had been signed by him (etc. parte Morgan, Jurist, June the 20th).—Mr. Betteral and Mr. Malins appeared in opposition to the motion, without hearing whom, the Vica-Chanesenabes observed that, upon referring to the Act, his opinion was, that Mr. Apps was, in effect, a member of the company, and a contributory within the meating of the statute. Associated, as he doubties was, with those who were carrying on the scheme as provisional directors, there was here a clear distinction from the case cited. It was plain that there might be a release from him to them, in consideration of the sun regaid, without their undertaking to release him from the sum unpaid. The directors, indeed, had referred to certain claims, for which there was a responsibility; and, although there might not be any agreement, Mr. Apps must be considered as a contributory within the meaning of the Act.

Coals imported into Irreland in the year 1846.

An Astounding Cure of Thirty-five Wounds of Holland in the year 1846.

AN ASTOUNDING CURE OF THERT-FIVE WOUNDS DY HOLLOWAY'S OINTERNAL AND FILE.—Extract of a letter from Mr. Jeremiah Reed, of Molong, near Sydney, dated 30th September, 1842.—To Professor Holloway—Sir.—I owe a debt of gratitude to you for my atmost misuscless cure by the use of your cintment and pills after seven years intense suffering, caused by exposure to wet and cold. When I commenced using your remedies I had already expended upwards of 2008, in other medicare and advice without any benefit, and had 35 ulcers on my body, a dreadful headach and pains all over me, but your ointment and pills have cured me, and I am now enjoying evenlent health."—Sold by all druggists, and at Professor Holloway's establishment, 344, Strand, London.

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RAREFACTION FOR THE

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TION.—The Unchangeable Blue Fluids are Patent articles; the public are, it
utioned against imitations, which are infringements, to sell or use which is ill
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DAMPAND GASEOUS EXHALATIONS.

All MEMBERS of BOARDS OF HEALTH are especially DIRECTED to the most EFFECTIVE MEANS which they can ADOPT to PREVENT the injurious and often FATAL EFFECTS upon the HEALTH of the COMMUNITY, arising from exhalations that are produced from moisture, decayed animal matter (as in grave-yards), stagnast water, and collections of foetil refuse, tending to produce a missanatic state of atmosphere. In situations so effected, the impervious quality of the ASPHALTE of SEYSSEL renders it the most perfect PAVEMENT or COVERING that can be relied upon for hermetically closing, and thereby proventing the rising of moisture and escape of noxious vapours. The present extensive application of this material for covering roots, terraces, and arches, for preveating the percolation of wet, is strong evidence of its effectiveness for the above purposes, which is further confirmed by the following extract frem the Bejort of the Commissioners on the Fine Arts:—

'In 1839, superintended the construction of a house of three stories on the Lac d'Enghein. The foundation of the building is constantly in water, about 19½ inches below the level of the ground floor. The entire horizontal surface of the external and interwal walls was covered at the level of the truncal floor. The entire horizontal surface of the external and interwal walls was covered at the level of the truncal floor. The surface of the external and incher was a surface of the start produces round spots, darker or lighter, on wails so painted. Yet the pavement of the foor, resting on the soil itself, is only about 2½ in above the external and surface of the soil. and only 19½ in., at the utmost, above that of the sheet of water. The layer of Asphalte tompet on the soil itself, is only about 2½ in above the external as arises of the soil. and only 19½ in., at the utmost, above that of the sheet of water. The layer of Asphalte Competer of the soil the soil that the utmost, above that of

I. FARRELL, S

Seyssel Asphalte Company, Stangate, London.

NOTICE .—WENHAM LAKE ICE SUPERSEDED!

(BY ROYAL LETTERS PATENT).

MASTERS AND CO.'S PATENT SHERRY COBBLER FREEZING AND COOLING JUG.

By this Patent Jug, spring water is congealed into the purest ice, on the table of Sdeboard, for Sherry Cobblers, &c., in FIVE MINUTES, at the cost of Twopence. The public is respectfully invited to see the process of this extraordinary and neeful invention, as actually BOILING WATER CAN BE CONVERTED INTO ICE without the sid of ice! Patentees of the Freezing Machine (by which 50 to 100 quarts of Desert Ice can be made in a few minutes, and Rock Ice at the same time, and Wine cooled), Cooling Decanters, Refrigerators, Butter Coolers, and Percolators. By this last-mentioned article a bottle of wine, &c., can be cooled in a minute without ice, for one halfpenny.

MASTERS & CO.'S IMPROVED APPARATUS FOR MAKING PURE SODA WATER, LEMONADE, NECTAR, and all ÆRATED WATERS.—This apparatus needs only to be seen to be appreciated. Price 30s.—MASTERS & CO., PATENTEES, 204, HARGENT-STREET, AND 7, MANSION-HOUSE-STREET, CITY.—Also,

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DATENT IMPROVEMENTS IN CHRONOMETERS. WATCHES AND CLOCKS.—E. J. DENT, \$2, Strand, and 33, Cockspur-street, watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highness Prince Albert, begs to acquains the public, that its manufacture of his chromometers, watches, and clocks, is secured by three separate patents, respectively granted in 1866 1840, 1842. Silver lever watches, jewelled in four holes, 6 gs. each; in gold cases, om £3 to £10 extra. Gold horizontal watches, with gold dials, from \$ gs. to 12 gs. each, or Meridian Instrument, is now ready for delivery.—Pamphiets containing a description and directions for its use 1s. each, but to customers gratis.

PATENT BAILWAY AND OTHER CARRIAGE AXLES,

PATENT RAILWAY AND OTHER CARRIAGE AXLES,

MANUTACTURED BY THE

PATENT SHA FT AND AXLE-TREE COMPANY,

BRUNSWICK IRON-WORRS, WEDNESBURY, STAFFORDSHIRE.

The Judicial Committee of the Privy Council having declared that the AXLES AND ENTRY FOR SHAFF AND AXLE-TREE COMPANY,

HADE BY THE PATENT SHAFT AND AXLE-TREE COMPANY
had proved a PUBLIC BENEFIT in greatly conducing to the SAFETY of RAILWAY
THAVELLING, the exclusive right to manufacture has been extended for four years, on
condition that the practice of clarging a moderate price, proved hitherto to have been
pursued, should be made imperative.

It was also proved that these Axles were in general use—upwards of 100,000 having
been supplied to the English and Continental Railways, among whom are the London
and North-Western, the Midland, and the Great Western; that they had withsteod frequently severe tests applied by the engineers of these railways for the purpose of experiment, and others still more severe to which they were accidentally subjected in use.
In one such instance a Patent Axle, 4 inches in diameter, ustained the whole free of a
heavy train going at the rate of 60 miles an hour, by which it was twisted and bent nearly
donble, without showing the least fracture.

The patent principle of manufacture causes the axles to be equally strong in all directions, for the "faggod" is made in a cylindrical form, by the external bara being rolled
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perfectly weided throughout its whole lough it so one heat, avoiding the necessity of the
frequent heating and bammering of the ordinary mode, by which much risk is run of finperfectly weiding, burning, and otherwise injuring the iron.

The use of this principle, combined with experience gained of the quality and admixture of the iron and mode of treatment best adapted to resist the strain to which an axle
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respectfully recommended that information

exclusively. The trial of the Patent Shaft Company's Iron is solicited in cases where the power to resist a great strain is of importance. Evidence can be afforded from several railway engineers, of great economy having resulted from its use, in preventing the breakage to which their coupling chains were frequently previously subjected, particularly on the Midland Railway, where the heavy mineral traffic subjects these chains to unusual strains. Iron manufactured on the patent principle is also recommended for coach and carriage axies, for, if not afterwards injured by the coachamith, all risk of breakage will be avoided.

BY HER MAJESTY'S ROYAL LETTERS PATENT. JOHN BROWN'S CONICAL BUFFER, BEARING, AND DRAW SPRINGS





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lessen the loss of life in mines.

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